

GENESYS[™] Programmable Power Supplies



GENESYS[™]

The next generation has arrived. And it's small and mighty.

The **GENESYS™** family of programmable power supplies sets a new standard for flexible, reliable, AC-DC power systems in OEM, Industrial and Laboratory applications.

⁺High functionality

+Smallest and lightest product on the market

+Versatile communication protocols

+Simplifies control

*Speeds up test times



Features

General

- 1U benchtop and 19 Inch standard rack package
- Constant voltage/constant current operation modes/constant power (CP) Limit
- Internal Resistance Simulation

Control interfaces

- High resolution 16 bit ADCs & DACs
- LAN (LXI 1.5), USB, RS-232/RS-485 built-in as standard
- · Isolated Analogue interface built-in as standard
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- Communications compatible with Z+ and Genesys[™]

Programming

- Arbitrary Waveform Generator with Auto-Triggering (store up to 100 steps into four internal memory cells)
- Slew-Rate Control (V/I)
- Two user programmable output control pins (open drain) to activate external devices
- Easy auto-configuration for parallel systems up to 60kW
- Safe or Auto re-start and last settings memory
- Certified LabWindows TM/CVI, LabView TM and IVI Drivers

Environmental

- Fan speed profile controlled by ambient temperature and load
- Efficiency up to 92%

Mechanical

- High contrast, wide viewing angle LCD display with brightness and dimming control
- · Blank front panel option
- Front Panel dust filter option
- Rackmount-Kit for Half-Rack models option

Specifications

- 1kW, 1.5kW models in 1U, half 19" Rack-Mount
- 1, 1.7, 2.7, 3.4, 5kW models in 1U
- 10kW in 2U / 15kW in 3U
- Wide Range of popular worldwide AC inputs: GH1kW/1.5kW: 1Ø (85~265Vac) G1kW/1.7kW: 1Ø (85~265Vac) G2.7/3.4kW: 1Ø (170~265Vac), 3Ø (208, 400 & 480Vac) G5kW - G15kW: 3Ø (208, 400 & 480Vac), Wide range 3Ø 480Vac (342~528Vac)
- Output Voltage up to 600V, Current up to 1500A
- 5 year warranty

Applications

- Test & Measurement systems, Component Device Testing, Manufacturing and process control
- Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology
- ATE, Automotive, Automation, Laser diodes, Battery simulation
- Higher power systems can be configured with up to twelve (12) 5kW units. Each unit is 1U with zero space between them (zero stack)
- OEM Designers have a wide variety of inputs and outputs from which to select depending on application and location

Find out more at: www.emea.lambda.tdk.com/genplus

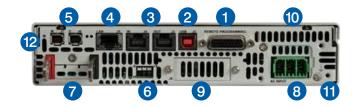
GENESYS[™] Panel Description

Front Panel GENESYS+™ GH (1-1.5kW)



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ GH (1-1.5kW)



- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LN 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and slave unit-to-slave unit
- 6. Remote/Local Output Voltage Sense Connections (spring cage)
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Output connector: PHOENIX CONTACT GIC 2.5/4-G-7.62 for models with Outputs >100V Plug connector: PHOENIX CONTACT GIC 2.5/4-ST-7.62 for models with Outputs >100V
- 8. GH1.5kW Input: 85~265Vac, Single Phase, 50/60Hz
 - AC Input Connector: PHOENIX CONTACT Power Combicon PC 5/3-G-7.62
 - AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief (Model shown) GH1kW AC Input Connector: IEC320 C16
- 9. Optional Interface Position for IEEE 488.2 SCPI or Anybus Interface
- 10. Exhaust air assures reliable operation when units are zero stacked
- 11. Functional Ground connection (M3x8mm screw)
- 12. Reset button. Set default Power Supply settings

Front Panel GENESYS+™ G (1-5kW)



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ G (1-5kW)



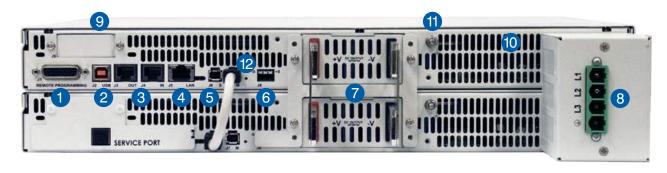
- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and slave unit-to-slave unit
- 6. Remote/Local Output Voltage Sense Connections (spring cage)
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V
- 8. G2.7kW / G3.4kW / G5kW AC Input: 208, 400 & 480Vac, Three Phase, 50/60Hz (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief G1.7kW / G2.7kW / G3.4kW AC Input Single Phase, 50/60Hz AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief
 - G1kW AC Input Connector: IEC320 C16
- 9. Optional Interface Position for IEEE 488.2 SCPI or Anybus Interface
- 10. Exhaust air assures reliable operation when units are zero stacked
- 11. Functional Ground connection (M4x8mm stud)
- 12. Reset button. Set default Power Supply settings

Front Panel GENESYS+™ GSP (10kW)



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ GSP (10kW)



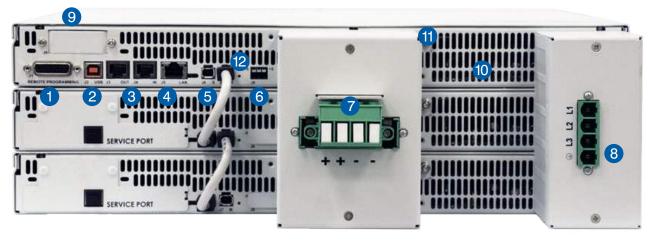
- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and slave unit-to-slave unit
- 6. Remote/Local Output Voltage Sense Connections (spring cage)
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V
- 8. Input: 208, 400 & 480Vac Three Phase, 50/60Hz AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief
- 9. Optional Interface Position for IEEE 488.2 SCPI or Anybus Interface
- 10. Exhaust air assures reliable operation when zero stacked
- 11. Functional Ground connection (M4x8mm stud)
- 12. Reset button. Set default Power Supply settings

Front Panel GENESYS+™ GSP (15kW)



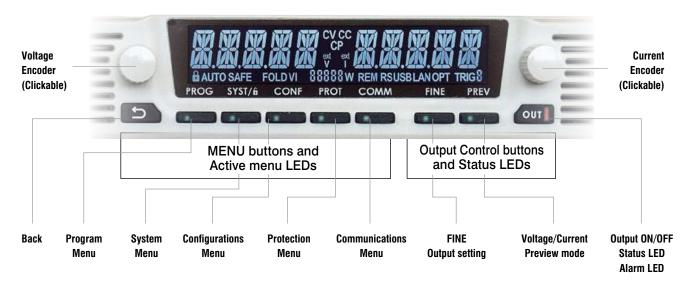
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ GSP (15kW)

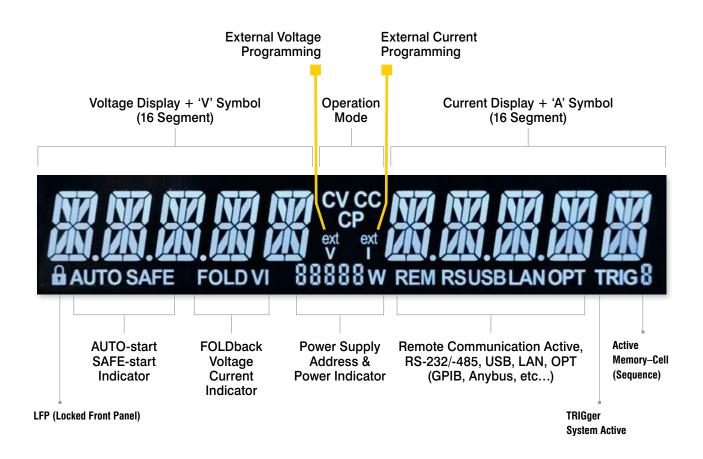


- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and slave unit-to-slave unit
- 6. Remote/Local Output Voltage Sense Connections (spring cage)
- 7. Output Connections: Rugged busbars for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V (shown)
- 8. Input: 208, 400 & 480Vac Three Phase, 50/60 Hz
 AC Input Plug Connector: PHOENIX CONTACT DFK-PC 16/4-ST-10.16 with strain relief
- 9. Optional Interface Position for IEEE 488.2 SCPI or Anybus Interface
- 10. Exhaust air assures reliable operation when zero stacked
- 11. Functional Ground connection (M4x8mm stud)
- 12. Reset button. Set default Power Supply settings

Front Panel Display MENU/CONTROL buttons



Front Panel Display indicators



GENESYS+™ GHB 1-1.5kW Series Blank Front Panel

A Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (digital/analogue) is needed.

The Blank Front Panel option has all the standard product functions and features except the display. The power supply can be controlled via the rear panel Remote digital interface (LAN, USB, RS-232/RS-485) or via the remote Isolated Analogue interface.



GENESYS+™ GH Parallel and Series Configurations

Parallel operation - Master/Slave

- Auto paralleling Scalable Master-Slave Operation
- Active current sharing allows up to four identical units to be connected
- Total Real Current is programmed, measured and reported by the Master
- Up to four supplies operate as one



Standard Unit - Zero stacked up to 4 units

Series operation

Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max. 600V to Chassis Ground).

Multi-Drop Remote Programming via Communication Interface

Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.







GENESYS+™ G&GSP Series Blank Front Panel

A Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (digital/analogue) is needed.

The Blank Front Panel option has all the standard product functions and features except the display. The power supply can be controlled via the rear panel Remote digital interface (LAN, USB, RS-232/RS-485) or via the remote Isolated Analogue interface.



GENESYS+™ Parallel and Series Configurations

Parallel operation - Master/Slave

- Auto paralleling Scalable Master-Slave Operation
- Active current sharing allows up to twelve (12) identical units to be connected
- Total Real Current is programmed, measured and reported by the Master
- Up to twelve (12) supplies operate as one





Standard Unit - Zero stacked up to 12 units

Standard & Blank - Zero stacked up to 12 units

Scalable Power Systems

Factory assembly and test available for two and three unit systems 10kW/15kW. Parallel kit available for six unit systems 30kW. Order P/N: G/P - 6U





GSP 10kW in 2U

GSP 15kW in 3U

Series operation

Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max. 600V to Chassis Ground).

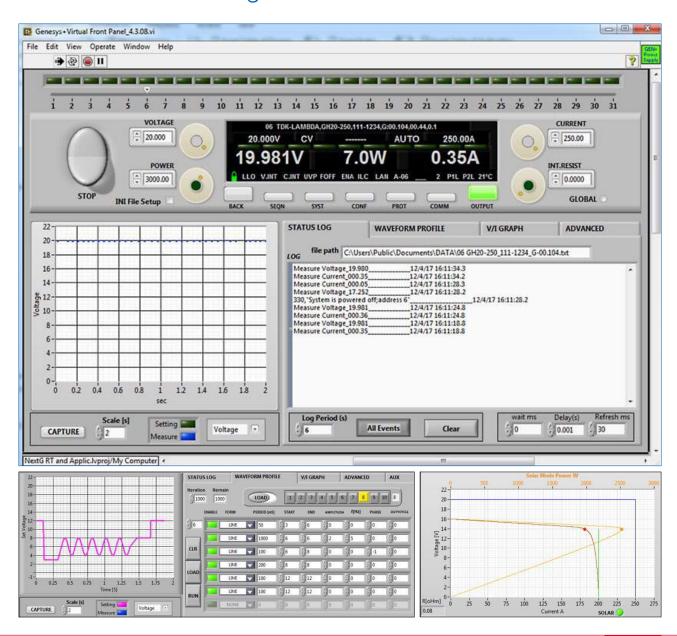
GENESYS[™] User Interface

Graphical User Interface

Advanced "Virtual Front Panel" allows programming and monitoring units with or without front panel display.

- Control and monitor up-to 31 units with "Address" bar
- Front panel set-up menu control (PROGram, SYSTem, CONFIguration, PROTection and COMMunication)
- Informative "Parameters" status bar
- · Individual unit and Global command control
- Data logging including errors, events and recovery
- Realtime Graph and Waveform creator, store/load sequence
- Solar array mode calculate MPP (Max Peak Power) for solar array
- Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals
- Remote communication state LOC, REM, LLO
- Programmed signals 1&2

GUI Waveform Profile generator



GENESYS[™] Air Filter Kit

GENESYS+™ Front Panel Air Filter Assembly

Front panel dust cover is available for dusty air environment applications. Dust cover is removable snap-in filter (for easy maintenance)

Part Number (for standard unit): **G-AFK**



Part Number (for unit with blank front panel): GB-AFK

For GSP 10kW/15kW series order part number: GSP10kW-AFK / GSP15kW-AFK

Technical Specifications: Unit with Air Filter Assembly Installed

- Derating (environmental)
- Operating Temperature
- For all models (except 10V): 0°C to +40°C full load For 10V model: 0°C to +30°C, derate 5A/°C for $30^{\circ}C < TA < +40^{\circ}C$
- Altitude
- For all models (except 10V): derate 2°C/100m or 2% of load/100m (above 2000m)
- For 10V model: derate 1°C/100m or 2% of load/100m (above 2000m)

Air Filter Assembly Components Standard Unit (P/N: G-AFK)

- Air Filter Cover (two pieces)
- Slide Button #1 (two locations: near AC ON/OFF switch and near left-hand side of front panel display)
- Slide Button #2 (one location: right-hand side of front panel display)
- Filter foam (two pieces)

Filter Foam Technical Specifications

- Material: reticulated polyurethane foam
- Thickness: 3.8mm • Porosity: 45ppi
- Operating Temperature Range: 0°C to +60°C
- Storage Temperature Range: -40°C to +85°C
- Humidity: 95% RH

Blank Front Panel Unit (P/N: GB-AFK)

- Air Filter Cover (one piece)
- Slide Button #1 (two locations)
- Filter foam (one piece)

GENESYS[™] Product Summary

GENESYS+™ Family Output Voltage and Current

Model	G (Std Front	Panel Display) / G	B (Blank Front Par	iel Display)		GSP / GBSP	Scalable Power)
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	10kW	15kW
Voltage Range [V]	Current Ran	ge [A]					
0~10	0~100	0~170	0~265	0~340	0~500	0~1000	0~1500
0~20	0~50	0~85	0~135	0~170	0~250	0~500	0~750
0~30	0~34	0~56	0~90	0~112	0~170	0~340	0~510
0~40	0~25	0~42	0~68	0~85	0~125	0~250	0~375
0~50	-	-	-	-	0~100	0~200	0~300
0~60	0~17	0~28	0~45	0~56	0~85	0~170	0~255
0~80	0~12.5	0~21	0~34	0~42	0~65	0~130	0~195
0~100	0~10	0~17	0~27	0~34	0~50	0~100	0~150
0~150	0~7	0~11.2	0~18	0~22.5	0~34	0~68	0~102
0~200	-	-	-	-	0~25	0~50	0~75
0~300	0~3.5	0~5.6	0~9	0~11.5	0~17	0~34	0~51
0~400	-	-	-	-	0~13	0~26	0~39
0~500	-	-	-	-	0~10	0~20	0~30
0~600	0~1.7	0~2.8	0~4.5	0~5.6	0~8.5	0~17	0~25.5
Weight [kg/lb]	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	15.5/34.2	23.5/51.8

AC Input Range

Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*
3P400	N/A	N/A	*	*	*	*	*
3P480	N/A	N/A	*	*	*	*	*

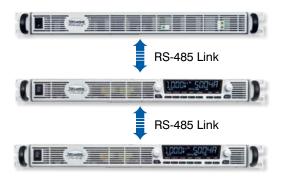
Multi-Drop Remote Programming via Communication Interface

Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.







Models GENESYS+™ GH (1/1.5kW)

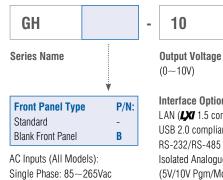
Models 1kW

Model	Voltage [V]	Current [A]	Power [W]
GH10-100	0~10	0~100	1000
GH20-50	0~20	0~50	1000
GH30-34	0~30	0~34	1020
GH40-25	0~40	0~25	1000
GH60-17	0~60	0~17	1020
GH80-12.5	0~80	0~12.5	1000
GH100-10	0~100	0~10	1000
GH150-7	0~150	0~7	1050
GH300-3.5	0~300	0~3.5	1050
GH600-1.7	0~600	0~1.7	1020
Weight [kg/lb]	3.5/7.7		

Models 1.5kW

Model	Voltage [V]	Current [A]	Power [W]
GH10-150	0~10	0~150	1500
GH20-75	0~20	0~75	1500
GH30-50	0~30	0~50	1500
GH40-38	0~40	0~38	1520
GH60-25	0~60	0~25	1500
GH80-19	0~80	0~19	1520
GH100-15	0~100	0~15	1500
GH150-10	0~150	0~10	1500
GH300-5	0~300	0~5	1500
GH600-2.6	0~600	0~2.6	1560
Weight [kg/lb]	3.5/7.7		

Product Code



10	-	150	-	-	-	

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Interface **Options**

AC Cable Options (only for 1kW)

Accessories Options

interface options (Factory installed)
LAN (LXI 1.5 compliant with Multi-Drop capability)
USB 2.0 compliant with Multi-Drop capability
RS-232/RS-485

Output Current

 $(0\sim150A)$

Isolated Analogue Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation)

Interface Options (Optional) IEEE (488.2 & SCPI compliant with Multi-Drop capability installed) Modbus-TCP

AC Cable Options 1kW only P/N: Europe North America

Japan China Middle East P/N:

Accessories Options Printed User Manual

IEEE

MDBS

ECAT

P/N:

(User Manual & GUI on website) Bus Paralleling Cable

Ρ P/N:

Rack Mounitng applications

EtherCat

Accessories

The Rack Mounted kit allows the units to be zero stacking for maximum system flexibility and power density without increasing the 1U height of the units. To install one GH1-1.5kW unit or two units side-by-side

in a standard 19" rack in 1U(1.75") height, use option kit

Single GH1kW/1.5kW power supply in a standard 19" rack in 1U(1.75") height Dual unit installation

Two GH1kW/1.5kW power supplies side-by-side in a standard 19" rack in 1U (1.75") height





Benchtop applications Multi Output

The benchtop stacking kit allows the units to be Zero stacked for maximum system flexibility and power density without increasing the 1U height of the units.

To install a GH1kW/1.5kW two units one on top of the other use option kit



GH/M0-2U

GH/MO

P/N:

Ε

U

J

C

M

GH/RM

Models GENESYS+™ G (1/1.7kW)

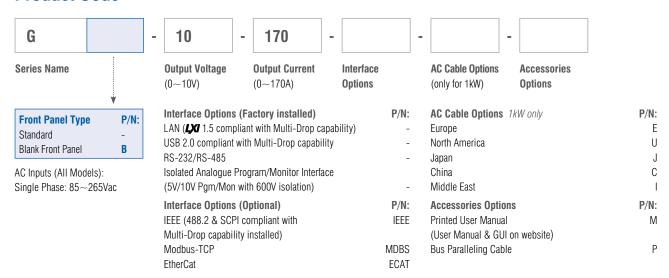
Models 1kW

Model	Voltage [V]	Current [A]	Power [W]
G10-100	0~10	0~100	1000
G20-50	0~20	0~50	1000
G30-34	0~30	0~34	1020
G40-25	0~40	0~25	1000
G60-17	0~60	0~17	1020
G80-12.5	0~80	0~12.5	1000
G100-10	0~100	0~10	1000
G150-7	0~150	0~7	1050
G300-3.5	0~300	0~3.5	1050
G600-1.7	0~600	0~1.7	1020

Models 1.7kW

Model	Voltage [V]	Current [A]	Power [W]
G10-170	0~10	0~170	1700
G20-85	0~20	0~85	1700
G30-56	0~30	0~56	1680
G40-42	0~40	0~42	1680
G60-28	0~60	0~28	1680
G80-21	0~80	0~21	1680
G100-17	0~100	0~17	1700
G150-11.2	0~150	0~11.2	1680
G300-5.6	0~300	0~5.6	1680
G600-2.8	0~600	0~2.8	1680

Product Code



Accessories

Accessories will be sent separatly from the Power Supply packing, according to order.

1. Serial Communication cable - RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	PC Connector	Power Supply Connector	Communication Cable	P/N
RS-232	DB-9F	RJ-45	Shielded L=2m	GEN/232-9
RS-485	DB-9F	RJ-45	Shielded L=2m	GEN/485-9

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

4. User Manual

Printed User Manual G/M

Models GENESYS+™ G (2.7/3.4kW)

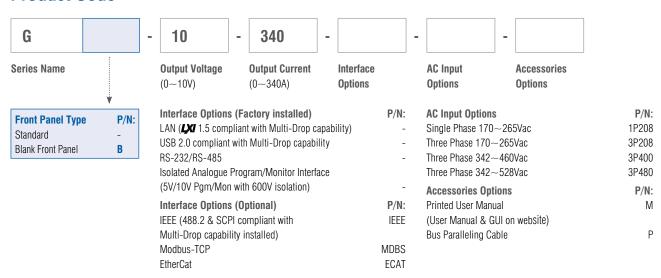
Models 2.7kW

Model Voltage [V] Current [A] Power [W] G10-265 0~10 0~265 2650 G20-135 $0\sim20$ 0~135 2700 G30-90 0~30 0~90 2700 G40-68 0~40 $0 \sim 68$ 2720 G60-45 0~60 $0 \sim 45$ 2700 G80-34 $0 \sim 80$ $0\sim34$ 2720 G100-27 0~100 0~27 2700 G150-18 0~150 $0 \sim 18$ 2700 G300-9 0~300 0~9 2700 G600-4.5 0~600 $0 \sim 4.5$ 2700

Models 3.4kW

Model	Voltage [V]	Current [A]	Power [W]
G10-340	0~10	0~340	3400
G20-170	0~20	0~170	3400
G30-112	0~30	0~112	3360
G40-85	0~40	0~85	3400
G60-56	0~60	0~56	3360
G80-42	0~80	0~42	3360
G100-34	0~100	0~34	3400
G150-22.5	0~150	0~22.5	3375
G300-11.5	0~300	0~11.5	3450
G600-5.6	0~600	0~5.6	3360

Product Code



Accessories

Accessories will be sent separatly from the Power Supply packing, according to order.

1. Serial Communication cable - RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	PC Connector	Power Supply Connector	Communication Cable	P/N
RS-232	DB-9F	RJ-45	Shielded L=2m	GEN/232-9
RS-485	DB-9F	RJ-45	Shielded L=2m	GEN/485-9

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

4. User Manual

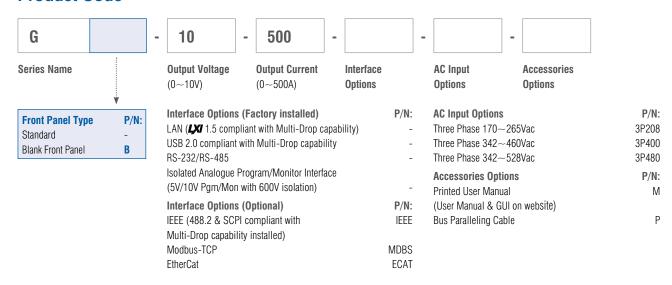
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Printed User Manual	G/M

Models GENESYS+™ G (5kW)

Model	Voltage [V]	Current [A]	Power [W]
G10-500	0~10	0~500	5000
G20-250	0~20	0~250	5000
G30-170	0~30	0~170	5100
G40-125	0~40	0~125	5000
G50-100	0~50	0~100	5000
G60-85	0~60	0~85	5100
G80-65	0~80	0~65	5200

Model	Voltage [V]	Current [A]	Power [W]
G100-50	0~100	0~50	5000
G150-34	0~150	0~34	5100
G200-25	0~200	0~25	5000
G300-17	0~300	0~17	5100
G400-13	0~400	0~13	5200
G500-10	0~500	0~10	5000
G600-8.5	0~600	0~8.5	5100

Product Code



Accessories

Accessories will be sent separatly from the Power Supply packing, according to order.

 $1. \ Serial \ Communication \ cable - RS-232/RS-485 \ cable \ is \ used \ to \ connect \ the \ power \ supply \ to \ the \ Host \ PC.$

Mode	PC Connector	Power Supply Connector	Communication Cable	P/N
RS-232	DB-9F	RJ-45	Shielded L=2m	GEN/232-9
RS-485	DB-9F	RJ-45	Shielded L=2m	GEN/485-9

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

4. User Manual

Printed User Manual	G/M
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5. Parallel Kit: 20/30kV

5. Paraniei Kit: 20/30kW	
BusBar Parallel Kit for 20 kW operation (5kW Models where Vout up to 100V)	G/P-4U
BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)	G/P-6U

Models GENESYS+™ GSP (10/15kW)

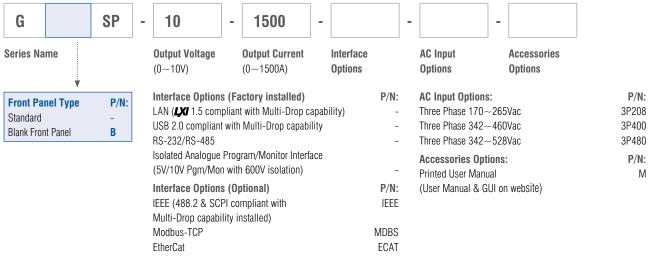
Models 10kW

Model	Voltage [V]	Current [A]	Power [kW]
GSP10-1000	0~10	0~1000	10
GSP20-500	0~20	0~500	10
GSP30-340	0~30	0~340	10.2
GSP40-250	0~40	0~250	10
GSP50-200	0~50	0~200	10
GSP60-170	0~60	0~170	10.2
GSP80-130	0~80	0~130	10.4
GSP100-100	0~100	0~100	10
GSP150-68	0~150	0~68	10.2
GSP200-50	0~200	0~50	10
GSP300-34	0~300	0~34	10.2
GSP400-26	0~400	0~26	10.4
GSP500-20	0~500	0~20	10
GSP600-17	0~600	0~17	10.2

Models 15kW

Model	Voltage [V]	Current [A]	Power [kW]
GSP10-1500	0~10	0~1500	15
GSP20-750	0~20	0~750	15
GSP30-510	0~30	0~510	15.3
GSP40-375	0~40	0~375	15
GSP50-300	0~50	0~300	15
GSP60-255	0~60	0~255	15.3
GSP80-195	0~80	0~195	15.6
GSP100-150	0~100	0~150	15
GSP150-102	0~150	0~102	15.3
GSP200-75	0~200	0~75	15
GSP300-51	0~300	0~51	15.3
GSP400-39	0~400	0~39	15.6
GSP500-30	0~500	0~30	15
GSP600-25.5	0~600	0~25.5	15.3

Product Code



Accessories

Accessories will be sent separatly from the Power Supply packing, according to order.

1. Serial Communication cable - RS-232/RS-485 cable is used to connect the power supply to the Host PC

Mode	PC Connector	Power Supply Connector	Communication Cable	P/N
RS-232	DB-9F	RJ-45	Shielded L=2m	GEN/232-9
RS-485	DB-9F	RJ-45	Shielded L=2m	GEN/485-9
3. Bus Paralleling cable (included wit	h the power supply)			

	3		
Connectore		Cables	

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

3. User Manual

Printed User Manual

GENESYS[™] Specifications

Specifications GENESYS+™ GH (1kW)

Output Rating	GH	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.
1. Rated output voltage(*1)	٧	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	A	100	50	34	25	17	12.5	10	7	3.5	1.7
3. Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. (*3)			c, continuous,	, 41∼63HZ, S	single Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5	21 000 0	0001/							
3. Power Factor (Typ)			OVac 0.98 @	1			07/00	00/00	00/00	00/00	00/00
4. Efficiency at 100Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5. Inrush current (*5)	A	Less than 50		20	40	CO	00	100	450	200	coo
Constant Voltage Mode	V	10	20 ted output vol	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)											
2. Max. Load regulation (*7) 3. Ripple and noise (p-p, 20MHz) (*8)	mV	50	ted output vol	50	60	60	75	75	75	200	500
I. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	20	20	50	100
5. Temperature coefficient	PPM/°C		rom rated out					20	20	30	100
5. Temperature stability							•	t line, load & t	emn		
7. Warm-up drift							ollowing powe		citip.		
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
10. Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	900	1200	1500	1700	2000	2500	3300	3500
11. Transient response time	mS			1				nge 10~90%			10000
11. Handlont responde time	1110									models above	100V.
12. Start up delay	Sec	Less than 6					,	3.5	.,,,,		
13. Hold-up time	mS		al, rated outpu	ut power							
Constant Current Mode	٧	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of rat	ted output cur	rrent. +2mA							
2. Max. Load regulation (*9)			ted output cur								
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
4. Temperature coefficient	PPM/°C	10V~100V 150V~600					0 minutes wa 10 minutes warr			'	'
5. Temperature stability								line, load & t	emperature.		
6. Warm-up drift		10V~100V					•				
		150V~600									
Analogue Programming and Monitoring (Isolate	d from th							owing power o			
	T .	e Output)	V: Less than -	+/-0.15% of	rated output o	urrent over 3) minutes follo	owing power o	ın.		
1. Vout voltage programming		e Output) 0~100%, 0	V: Less than -	+/-0.15% of 0V, user sele	rated output o	eurrent over 3 acy and linea	0 minutes follority: +/-0.15%	owing power of of rated Vou	ın.		
Vout voltage programming lout voltage programming (*14)		e Output) 0~100%, 0 0~100%, 0	V: Less than - 1~5V or 0~1 1~5V or 0~1	+/-0.15% of OV, user sele OV, user sele	rated output o ctable. Accur ctable. Accur	acy and linea	0 minutes follo rity: +/-0.15% rity: +/-0.4%	owing power of of rated Voutoff rated lout.	in. t.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14)		e Output) 0~100%, 0 0~100%, 0 0~100%, 0	V: Less than - 1~5V or 0~1 1~5V or 0~1 1~5/10Kohm	+/-0.15% of OV, user sele OV, user sele full scale, us	ctable. Accur ctable. Accur ctable. Accur er selectable.	acy and linea acy and linea Accuracy and	o minutes followity: +/-0.15% rity: +/-0.4% d linearity: +/	owing power of of rated Voutor of rated lout.	i. I Vout.		
Nout voltage programming Iout voltage programming (*14) Vout resistor programming Iout resistor programming (*14)		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0	V: Less than - 1~5V or 0~1 1~5V or 0~1 1~5/10Kohm 1~5/10Kohm	+/-0.15% of OV, user sele OV, user sele full scale, us full scale, us	ctable. Accur ctable. Accur ctable. Accur er selectable. er selectable.	acy and linea acy and linea Accuracy and Accuracy and	O minutes followity: +/-0.159 rity: +/-0.4% d linearity: +/ d linearity: +/	owing power of of rated Voutoff rated lout.	i. I Vout.		
Nout voltage programming Iout voltage programming (*14) Vout resistor programming Iout resistor programming (*14) Output voltage monitor		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	V: Less than - 1~5V or 0~1 1~5V or 0~1 1~5/10Kohm 1~5/10Kohm ~10V, user se	+/-0.15% of OV, user sele OV, user sele full scale, us full scale, us electable. Acc	ctable. Accur ctable. Accur ctable. Accur er selectable. er selectable. curacy: +/-0.	acy and linea acy and linea acy and linea Accuracy and Accuracy and 5% of rated V	O minutes followity: +/-0.159 rity: +/-0.4% d linearity: +/ d linearity: +/ out.	owing power of of rated Voutor of rated lout.	i. I Vout.		
1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	V: Less than - 1~5V or 0~1 1~5V or 0~1 1~5/10Kohm 1~5/10Kohm	+/-0.15% of OV, user sele OV, user sele full scale, us full scale, us electable. Acc	ctable. Accur ctable. Accur ctable. Accur er selectable. er selectable. curacy: +/-0.	acy and linea acy and linea acy and linea Accuracy and Accuracy and 5% of rated V	O minutes followity: +/-0.159 rity: +/-0.4% d linearity: +/ d linearity: +/ out.	owing power of of rated Voutor of rated lout.	i. I Vout.		
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1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0-	V: Less than - -5V or 0~1 -5V or 0~1 -5/10Kohm -5/10Kohm -10V, user se 10V, user se ly output mon itor. Open col	+/-0.15% of OV, user sele OV, user sele full scale, us full scale, us electable. Accelectable.	ctable. Accur ctable. Accur ctable. Accur er selectable. er selectable. curacy: +/-0. curacy: +/-0.	acy and lineal acy and lineal acy and lineal Accuracy and Accuracy and Source of the S	O minutes followity: +/-0.159 rity: +/-0.4% d linearity: +/- out. out. put Off: Off. M ximum Voltag	owing power of the following power of the following for the following for the following following for the following	in. I Vout. I lout. ge: 30V, Max	rent: 10mA.	
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1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pro	V: Less than 1-5V or 0~1 5V or 0~1 5/10Kohm 1-5/10Kohm -10V, user se 10V, user se Iy output mon itor. Open col ble analogue ogramming co	+/-0.15% of OV, user sele OV, user sele full scale, us full scale, us full scale, as electable. Acc electable.	ctable. Accur ctable. Accur ctable. Accur er selectable. er selectable. curacy: +/-0. curacy: +/-0. lllector. Outpu ode: On. CV r g control by e signal. Open c	acy and linea acy and linea acy and linea Accuracy and Accuracy and 55% of rated V 55% of rated Ic at On: On. Out node: Off. Ma lectrical signa ollector. Remo	O minutes followitis: +/-0.159 ity: +/-0.4% d linearity: +/ d linearity: +/ out. put Off: Off. N ximum Voltag il or dry conta ote: On. Local:	owing power of the control of the co	in. I Vout. I lout. ge: 30V, Max lum Sink Curl ~0.6V or sho Voltage: 30V,	rent: 10mA. rt. Local: 2~3 Maximum Sink	OV or oper
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Specifications GENESYS+™ GH (1.5kW)

Output Rating	GH	10-150	20-75	30-50	40-38	60-25	80-19	100-15	150-10	300-5	600-2.0
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	150	75	50	38	25	19	15	10	5	2.6
3. Rated output power	W	1500	1500	1500	1520	1500	1520	1500	1500	1500	1560
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. (*3)		-		s, 47~63Hz,		100	100	1.00	1.00	1000	1000
2. Maximum Input current at 100% load (100/200)	A	18.5/9	o, continuous	5, 17 00112,	Jingio i naoo						
3. Power Factor (Typ)		, .	∩\/aa ∩ ∩0 <i>(</i> ≈	200\/aa_rata	d output power	,					
		_				1	07/00	00/00	00/00	00/00	00/00
4. Efficiency at 100Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5. Inrush current (*5)	A	Less than 5		1	T		1	1	1	1	1
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of ra	ted output vo	ltage							
2. Max. Load regulation (*7)		0.01% of ra	ted output vo	Itage +2mV							
3. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	130	75	180	500
1. Ripple r.m.s. 5Hz∼1MHz (*8)	mV	6	6	6	7	7	8	30	20	45	100
5. Temperature coefficient	PPM/°C	50PPM/°C	from rated ou	itput voltage,	following 30 mi	inutes warm-	·up.				
5. Temperature stability		0.01% of ra	ted Vout over	r 8hrs interval	following 30 m	ninutes warm	-up. Constan	t line, load & t	emp.		
7. Warm-up drift					je+2mV over 3				- r		
3. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
	mS	20	20	20	20	20	20	20	30	30	40
D. Up-prog. Response time (*11)	-				-		-	-			-
10. Down-prog.response time: Full load (*12)	mS	20	20	20	30	30	50	50	60	70	80
No load (*12)	mS	300	500	600	900	1200	1300	1700	2200	2700	3000
11. Transient response time	mS				in 0.5% of its r						
				JU%, Local se	nse. Less than	1mS, for mo	dels up to an	d including 10	IUV. 2mS, for	models above	100V.
12. Start up delay	Sec	Less than 6									
3. Hold-up time	mS	20mS typic	al, rated outp	out power							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
I. Max. Line regulation (*6)		0.01% of ra	ted output cu	ırrent. +2mA							
2. Max. Load regulation (*9)			•	ırrent. +5mA							
B. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5
I. Temperature coefficient	PPM/°C	10V~100V		_	l output current			_	310	30	30
i. Temperature coemicient	I I IVI/ C				output current,						
5. Temperature stability					following 30 m				omporaturo		
, , , , , , , , , , , , , , , , , , , ,									•		
5. Warm-up drift					5% of rated output out						
Analania Diagramanian and Manitarian (Isalat	al fore on Ale		V. LESS IIIdii	+/-0.13/6 01	rated output cu	illelii üvel si	J IIIIIIules Ioii	owing power o	л.		
Analogue Programming and Monitoring (Isolate											
. Vout voltage programming					ctable. Accura	•	•		i.		
2. lout voltage programming (*14)		0~100%, 0)~5V or 0~	10V. user sele	ctable. Accura	cv and linear	itv: +/-0.4%	of rated lout			
				. ,		oj ana mioa	.cj , 0.170	or rated rout.			
3. Vout resistor programming		0~100%, 0)∼5/10Kohm		er selectable. A	•	· .		d Vout.		
				n full scale, us		Accuracy and	linearity: +/	/-0.5% of rated			
3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0	0∼5/10Kohm	n full scale, us n full scale, us	er selectable. <i>I</i>	Accuracy and Accuracy and	l linearity: +/	/-0.5% of rated			
4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0 0~5V or 0)~5/10Kohm ~10V, user s	n full scale, us n full scale, us selectable. Ac	er selectable. A ser selectable. A curacy: +/-0.5	Accuracy and Accuracy and % of rated V	I linearity: +/ I linearity: +/ out.	/-0.5% of rated			
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, 0 0~5V or 0)~5/10Kohm ~10V, user s	n full scale, us n full scale, us selectable. Ac	er selectable. <i>I</i> er selectable. <i>I</i>	Accuracy and Accuracy and % of rated V	I linearity: +/ I linearity: +/ out.	/-0.5% of rated			
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output)		0~100%, 0 0~5V or 0 0~5V or 0	0~5/10Kohm ~10V, user s ~10V, user s	n full scale, us n full scale, us selectable. Ac selectable. Ac	er selectable. A ser selectable. A curacy: +/-0.5 curacy: +/-0.5	Accuracy and Accuracy and % of rated Vo % of rated lo	I linearity: +, I linearity: +, out. ut.	/-0.5% of rateo /-0.5% of rateo	i lout.	imum Sink Cu	rrent: 10m/
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, C 0~5V or 0~ 0~5V or 0~)~5/10Kohm ~10V, user s ~10V, user s	n full scale, us n full scale, us selectable. Ac selectable. Ac nitor. Open co	er selectable. A der selectable. A curacy: +/-0.5 curacy: +/-0.5	Accuracy and Accuracy and % of rated V % of rated lo On: On. Out	I linearity: +, I linearity: +, out. out. out Off: Off. M	/-0.5% of rateo /-0.5% of rateo	d lout. ge: 30V, Max		rrent: 10mA
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon	0~5/10Kohm ~10V, user s ~10V, user s lly output mo litor. Open co	n full scale, us n full scale, us selectable. Ac selectable. Ac nitor. Open co ollector. CC m	ser selectable. A ser selectable. A curacy: +/-0.5 curacy: +/-0.5 ollector. Output ode: On. CV m	Accuracy and Accuracy and % of rated V % of rated lo On: On. Out ode: Off. Ma:	If linearity: +/ If linearity: +/ Out. Out. Out Off: Off. N Kimum Voltag	/-0.5% of rated /-0.5% of rated Maximum Volta ie: 30V, Maxim	d lout. ge: 30V, Max num Sink Curr	rent: 10mA.	
1. lout resistor programming (*14) 2. Output voltage monitor 3. Output current monitor (*14) 3. Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon	0~5/10Kohm ~10V, user s ~10V, user s lly output mo olitor. Open co uble analogue	n full scale, us n full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelector. CC me	er selectable. I der selectable. I duracy: +/-0.5 duracy: +/-0.5 duracy: -/-0.5 duracy: -/-0.5	Accuracy and Accuracy and % of rated Vo % of rated lo On: On. Out ode: Off. Ma:	I linearity: +/ I linearity: +/ Out. out Off: Off. N kimum Voltag I or dry conta	/-0.5% of rateo /-0.5% of rateo flaximum Volta le: 30V, Maxim ct. Remote: 0-	ge: 30V, Max num Sink Curi ~0.6V or sho	rent: 10mA. rt. Local: 2~3	80V or open
1. lout resistor programming (*14) 2. Output voltage monitor 3. Output current monitor (*14) 3. Goutput current monitor (*14) 3. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr	0~5/10Kohm ~10V, user s ~10V, user s vly output mo uitor. Open co uble analogue ogramming c	n full scale, us in full scale, us selectable. Accelectable. Accelectabl	ter selectable. // ter selectable. // curacy: +/-0.5 curacy: +/-0.5 curacy: -/-0.5 curacy: -/-0.	Accuracy and Accuracy and % of rated V % of rated lo On: On. Out ode: Off. Ma: ectrical signa illector. Remo	I linearity: +/ I linearity: +/ Out. Out Off: Off. N kimum Voltag I or dry conta tte: On. Local:	/-0.5% of rated /-0.5% of rated flaximum Volta le: 30V, Maxim ct. Remote: 0- Off. Maximum	ge: 30V, Max num Sink Curn ~0.6V or sho Voltage: 30V,	rent: 10mA. rt. Local: 2~3 Maximum Sink	80V or open
I. lout resistor programming (*14) Dutput voltage monitor Dutput current monitor (*14) Dignals and Controls (Isolated from the Output) Power supply OK #1 signal COV/CC signal DUCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal		0~100%, C 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa	0~5/10Kohm ~10V, user s ~10V, user s ly output mo oitor. Open co uble analogue ogramming c uble PS outpu	n full scale, us n full scale, us selectable. Accelectable. Accelectable	ter selectable. A curacy: +/-0.5 curacy: +/-0.5 curacy: +/-0.5 curacy: -/-0.5 cur	Accuracy and Accuracy and Accuracy and % of rated V % of rated lo On: On. Out ode: Off. Ma ectrical signa ellector. Remo contact. 0~C	I linearity: +/ I linearity: +/ Dut. Dut. Dut Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short,	/-0.5% of rated /-0.5% of rated flaximum Volta ie: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope	ge: 30V, Max num Sink Curr ~0.6V or sho Voltage: 30V, en. User selec	rent: 10mA. rt. Local: 2~3 Maximum Sink ctable logic.	80V or open
1. lout resistor programming (*14) 2. Output voltage monitor 3. Output current monitor (*14) 3. Gutput current monitor (*14) 3. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		0~100%, C 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa	0~5/10Kohm ~10V, user s ~10V, user s ly output mo oitor. Open co uble analogue ogramming c uble PS outpu	n full scale, us n full scale, us selectable. Accelectable. Accelectable	ter selectable. // ter selectable. // curacy: +/-0.5 curacy: +/-0.5 curacy: -/-0.5 curacy: -/-0.	Accuracy and Accuracy and Accuracy and % of rated V % of rated lo On: On. Out ode: Off. Ma ectrical signa ellector. Remo contact. 0~C	I linearity: +/ I linearity: +/ Dut. Dut. Dut Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short,	/-0.5% of rated /-0.5% of rated flaximum Volta ie: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope	ge: 30V, Max num Sink Curr ~0.6V or sho Voltage: 30V, en. User selec	rent: 10mA. rt. Local: 2~3 Maximum Sink ctable logic.	80V or open
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Enable/Disa	0~5/10Kohm ~10V, user s ~10V, user s ~10V, user s ly output mo hitor. Open co able analogue ogramming c able PS outpuble PS outpuble PS outpuble	n full scale, us in full scale, us selectable. Accepted a full scale of the full sca	ter selectable. A curacy: +/-0.5 curacy: +/-0.5 curacy: +/-0.5 curacy: -/-0.5 cur	Accuracy and Accuracy and Accuracy and & of rated Vo & of rated Io On: On. Out ode: Off. Ma: ectrical signal elector. Removement. 0 ~ Contact. Removement.	I linearity: +/ I linearity: +/ I linearity: +/ Dut. Dut. Dut Off: Off. N kimum Voltag I or dry conta te: On. Local: 1.6V or short, ote: 0~0.6V	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Curr ~0.6V or sho Voltage: 30V, en. User select	rent: 10mA. rt. Local: 2~3 Maximum Sink ctable logic. open.	80V or open
1. lout resistor programming (*14) 2. Output voltage monitor 3. Output current monitor (*14) 3. Gutput current monitor (*14) 3. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Two open d	0~5/10Kohm ~10V, user s ~10V, user s ~10V, user s ly output mo hitor. Open co able analogue ogramming c able PS outpu sible PS outpu rain program	n full scale, us a full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable acc	ser selectable. / ser selectable. / curacy: +/-0.5 curacy: +/-0.5 ollector. Output ode: On. CV m g control by ele signal. Open co signal or dry of signal or dry of	Accuracy and Accuracy and Accuracy and Accuracy and Months of rated Villing the Months of the Months	I linearity: +/ I linearity: +/ Out. ut. out Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User selec 1: 2~30V or c A (Shunted by	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener)	30V or open Current: 10
1. lout resistor programming (*14) 2. Output voltage monitor 3. Output current monitor (*14) 3. Gutput current monitor (*14) 3. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lo	0-5/10Kohm -10V, user s -10V, u	n full scale, us in full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable in the programming ontrol monitor in the pelectrica in the pelectrica mable signals it voltage = 0	ter selectable. / ter selectable. / curacy: +/-0.5 curacy: +/-0.5 ollector. Output ode: On. CV m g control by ele signal. Open co signal or dry of signal or dry of signal or dry of signal or dry of Maximum vol	Accuracy and Accuracy and % of rated Vi % of rated Io On: On. Out ode: Off. Ma- certical signa ellector. Remo contact. 0~C contact. Rem tage 25V, M nigh level inp	I linearity: +/ Julinearity: +/ put. ut. but Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User selec 1: 2~30V or c A (Shunted by	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener)	30V or open Current: 10
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) 6. Output current monitor (*14) 6. Power supply OK #1 signal 7. Power supply OK #1 signal 8. LOCAL/REMOTE Analogue control 9. LOCAL/REMOTE Analogue signal 9. ENABLE/DISABLE signal 9. INTERLOCK (ILC) control 9. Programmed signals 9. TRIGGER IN / TRIGGER OUT signals		0~100%, C 0~5V or 0- 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw=	0~5/10Kohm ~10V, user s ~10V, user s ~10V, user s ly output mo oitor. Open cc ble analogue ogramming c ble PS outpu tale PS outpu rain program ow level inpue =10us minim	n full scale, us full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming ontrol monitor at by electrica the programming of the programming o	ser selectable. / ser selectable. / curacy: +/-0.5 curacy: +/-0.5 curacy: +/-0.5 curacy: -/-0.5	Accuracy and Accuracy and Accuracy and % of rated Vi % of rated Io On: On. Out to ode: Off. Maretrical signal elector. Remote contact. 0—Contact. Rem tage 25V, Migh level inglin delay beth	I linearity: +/ Julinearity: +/ put. ut. but Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User selec 1: 2~30V or c A (Shunted by	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener)	30V or open Current: 10
I. lout resistor programming (*14) Output voltage monitor Output voltage monitor (*14) Gutput current monitor (*14) Power supply OK #1 signal C. CV/CC signal C. CV/CC signal C. LOCAL/REMOTE Analogue control C. ENABLE/DISABLE signal OUTPUT C. TRIGGER IN / TRIGGER OUT signals C. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal		0~100%, C 0~5V or 0- 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Two open d Maximum le trigger: tw= By electrica	0~5/10Kohm ~10V, user s ~10V, user s ~10V, user s vily output mo oitor. Open cc able analogue ogramming c able PS outpu ble PS outpu rain program ow level inpu =10us minim I Voltage: 0~	n full scale, us full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programmin control monitor in the pelectrical mable signals it voltage = 0 uum. Tr,Tf=1u~0.6V/2~30\	ter selectable. / ter selectable. / ter selectable. / curacy: +/-0.5 curacy:	Accuracy and Accuracy and Accuracy and % of rated Vi % of rated Io On: On. Out to ode: Off. Maretrical signal elector. Remote contact. 0—Contact. Rem tage 25V, Migh level inglin delay beth	I linearity: +/ Julinearity: +/ put. ut. but Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User selec 1: 2~30V or c A (Shunted by	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener)	30V or open Current: 10
I. lout resistor programming (*14) 5. Output voltage monitor 5. Output current monitor (*14) 6. Output current monitor (*14) 6. Output current monitor (*14) 6. Power supply OK #1 signal 7. CV/CC signal 8. LOCAL/REMOTE Analogue control 8. LOCAL/REMOTE Analogue signal 6. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal		0~100%, C 0~5V or 0- 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Two open d Maximum le trigger: tw= By electrica	0~5/10Kohm ~10V, user s ~10V, user s ~10V, user s vily output mo oitor. Open cc able analogue ogramming c able PS outpu ble PS outpu rain program ow level inpu =10us minim I Voltage: 0~	n full scale, us full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming ontrol monitor at by electrica the programming of the programming o	ter selectable. / ter selectable. / ter selectable. / curacy: +/-0.5 curacy:	Accuracy and Accuracy and Accuracy and % of rated Vi % of rated Io On: On. Out to ode: Off. Maretrical signal elector. Remote contact. 0—Contact. Rem tage 25V, Migh level inglin delay beth	Il linearity: +/ Julinearity: +/ put. ut. but Off: Off. N kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User selec 1: 2~30V or c A (Shunted by	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener)	30V or open Current: 10
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1. lout resistor programming (*14) 5. Output voltage monitor 5. Output voltage monitor 6. Output current monitor (*14) 6. Expansive supply OK #1 signal 7. Power supply OK #1 signal 8. LOCAL/REMOTE Analogue control 8. LOCAL/REMOTE Analogue signal 8. INTERLOCK (ILC) control 7. Programmed signal 8. INTERLOCK (ILC) control 7. Programmed signal 8. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Serailel operation 9. Series operation 9. Daisy chain 1. Constant power control 9. Output resistance control 9. Output resistance control 9. Silew rate control 9. Arbitrary waveforms 9. Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*18) Interface) 9. Vout programming accuracy (*15) 9. Vout programming resolution		0~100%, C 0~5V or 0- 0	20-5/10Kohm 10V, user s 10V, u	in full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable in control monitor in the programming ontrol monitor in the programming ontrol monitor in the programming in the	ter selectable. / ter selectab	Accuracy and Accuracy and Accuracy and Accuracy and % of rated Io On: On. Out ode: Off. Ma. Accuracy and Illector. Remotontact. O—Coontact. Remotage 25V, Migh level inplin delay behavior and the second accuracy and Incompared the Incompared	Il linearity: +/ J linearity: +/ J linearity: +/ but. ut. ut. ut. ut. ut. ut. ut.	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User select 1: 2~30V or c A (Shunted by Im high level or the front pa cation ports o mS or A/mS.	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener) input = 5V po	el.
1. lout resistor programming (*14) 5. Output voltage monitor 5. Output voltage monitor 6. Output current monitor (*14) 6. Expansive supply OK #1 signal 7. Power supply OK #1 signal 8. LOCAL/REMOTE Analogue control 8. LOCAL/REMOTE Analogue signal 8. INTERLOCK (ILC) control 7. Programmed signal 8. INTERLOCK (ILC) control 7. Programmed signal 8. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Serailel operation 9. Series operation 9. Daisy chain 1. Constant power control 9. Output resistance control 9. Output resistance control 9. Silew rate control 9. Arbitrary waveforms 9. Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*18) Interface) 9. Vout programming accuracy (*15) 9. Vout programming resolution		0~100%, C 0~5V or 0- 0	20~5/10Kohm ~10V, user s ~10V,	in full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable in control monitor in the programming ontrol monitor in the programming ontrol monitor in the programming in the	ter selectable. / ter selectab	Accuracy and Accuracy and Accuracy and Accuracy and % of rated Io On: On. Out ode: Off. Ma. Accuracy and Illector. Remotontact. O—Coontact. Remotage 25V, Migh level inplin delay behavior and the second accuracy and Incompared the Incompared	Il linearity: +/ J linearity: +/ J linearity: +/ but. ut. ut. ut. ut. ut. ut. ut.	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User select 1: 2~30V or c A (Shunted by Im high level or the front pa cation ports o mS or A/mS.	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener) input = 5V po	el.
In lout resistor programming (*14) Output voltage monitor Output current monitor (*14) Signals and Controls (Isolated from the Output) Power supply OK #1 signal COCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signal OLDAISY_OUT/PS_OK #2 signal COLONIAN OUT SIGNAL CONSTANT OF STANT OF SIGNAL CONSTANT OF SIGNAL CONSTANT OF SIGNAL Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/18-485, Optional IEEE (*18) Interface) Vout programming accuracy (*15) Lout programming accuracy (*14) Vout programming resolution		0~100%, C 0~5V or 0- 0	20-5/10Kohm 10V, user s 10V, u	in full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable in control monitor in the programming ontrol monitor in the programming in the p	ter selectable. / ter selectab	Accuracy and Accuracy and Accuracy and Accuracy and % of rated Io On: On. Out ode: Off. Ma. Accuracy and Illector. Remotontact. O—Coontact. Remotage 25V, Migh level inplin delay behavior and the second accuracy and Incompared the Incompared	Il linearity: +/ J linearity: +/ J linearity: +/ but. ut. ut. ut. ut. ut. ut. ut.	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User select 1: 2~30V or c A (Shunted by Im high level or the front pa cation ports o mS or A/mS.	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener) input = 5V po	el.
1. lout resistor programming (*14) 5. Output voltage monitor 5. Output voltage monitor 6. Output current monitor (*14) 6. Output current monitor (*14) 6. Signals and Controls (Isolated from the Output) 7. Power supply OK #1 signal 8. LOCAL/REMOTE Analogue control 8. LOCAL/REMOTE Analogue signal 8. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Series operation 9. Series operation 9. Series operation 10. Output resistance control 11. Constant power control 12. Arbitrary waveforms 13. Programming and Readback (USB, LAN, RS-232/8S-485, Optional IEEE (*18) Interface) 13. Vout programming accuracy (*15) 14. Output programming resolution 15. Iout programming resolution 16. Output readback accuracy 17. Output gramming resolution 18. Iout programming resolution 19. Output readback accuracy		0~100%, C 0~5V or 0- 0	20-5/10Kohm 10V, user s 10V, u	in full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable in control monitor out by electrica in the signals in the signals with the signals in the signal in th	ter selectable. / ter selectab	Accuracy and Accuracy and Accuracy and Accuracy and % of rated Io On: On. Out ode: Off. Ma. Accuracy and Illector. Remotontact. O—Coontact. Remotage 25V, Migh level inplin delay behavior and the second accuracy and Incompared the Incompared	Il linearity: +/ J linearity: +/ J linearity: +/ but. ut. ut. ut. ut. ut. ut. ut.	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User select 1: 2~30V or c A (Shunted by Im high level or the front pa cation ports o mS or A/mS.	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener) input = 5V po	10V or open Courrent: 10 ositive edge
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output)		0~100%, C 0~5V or 0- 0	20-5/10Kohm 10V, user s 10V, u	in full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable in control monitor out by electrica in the signals in the signals with the signals in the signal in th	ter selectable. / ter selectab	Accuracy and Accuracy and Accuracy and Accuracy and % of rated Io On: On. Out ode: Off. Ma. Accuracy and Illector. Remotontact. O—Coontact. Remotage 25V, Migh level inplin delay behavior and the second accuracy and Incompared the Incompared	Il linearity: +/ J linearity: +/ J linearity: +/ but. ut. ut. ut. ut. ut. ut. ut.	/-0.5% of rated /-0.5% of rate	ge: 30V, Max num Sink Cun ~0.6V or sho Voltage: 30V, en. User select 1: 2~30V or c A (Shunted by Im high level or the front pa cation ports o mS or A/mS.	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. open. r 27V zener) input = 5V po	10V or open Courrent: 10 ositive edge

Specifications GENESYS+™ GH (1/1.5kW)

Protective Functions		V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection			Output shut User preset	-down when able. Reset b	power supply o y AC input recy	hanges mode cle in autosta	e from CV or P art mode, by P	ower Limit to ower Switch, b	CC mode or fr by OUTPUT bu	om CC or Pov tton, by rear p	ver Limit to C panel or by co	V mode. mmunicatio
2. Over-voltage protection (OVP)			Output shut	-down. Reset	by AC input re	cycle in auto	start mode, by	OUTPUT butte	on, by rear par	nel or by com	munication.	
3. Over-voltage programming rang	je	٧	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming acc	uracy		+/-1% of ra	ated output v	oltage							
5. Output under voltage limit (UVL	.)		Prevents fro	m adjusting '	Vout below lim	it. Does not a	ipply in analog	jue programmi	ng. Preset by	front panel or	communicati	ion port.
6. Over temperature protection			Shuts down	the output. A	Auto recovery b	y autostart m	ode.					
7. Output under voltage limit (UVL	.)		Prevents ad	justment of V	out below limit	t.						
8. Output under voltage protection	(UVP)				out below limit by OUTPUT bu				e condition. R	eset by AC in	put recycle in	autostart
Front Panel												
1. Control functions			Vout/lout/Po OVP/UVL/U Protection F Communica Output ON/O Communica Analogue C	ation Function OFF. Front Pa ation Function ontrol Function	anual adjust djust VP, UVL,UVP, I ns - Selection o	of LAN,IEEE,R of Baud Rate, Voltage/resi:	S-232,RS-485 Address, IP ar stive programr	nd communica	tion language.		e.	
2. Display			Vout: 4 digi	ts, accuracy:	0.05% of rated 0.2% of rated o	output voltag	ge +/-1 count					
3. Front Panel Buttons Indications			OUTPUT ON	I, ALARM, PF	REVIEW, FINE, (COMMUNICA	TION, PROTEC	CTION, CONFIG	URATION, SYS	STEM, SEQUE	NCER.	
4. Front Panel Display Indications					CV, CC, CP, E					rt, Safetstart,	Foldback V/I,	
Environmental Conditions			,		,,		, ,				-	
Operating temperature			0~50°C, 1	00% load.								
Storage temperature			-30~85°C									
3. Operating humidity		%	20~90% R	H (no conder	nsation).							
4. Storage humidity		%		H (no conder	,							
5. Altitude					m), output curr	ent derating 2	2%/100m or Ta	derating 1°C/	100m above 2	000m. Non oi	perating: 4000	00ft (12000)
Mechanical			3		,,	<u> </u>	.,	, , , , , , , , , , , , , , , , , , ,			<u> </u>	(
1. Cooling			Forced air o	ooling by int	ernal fans. Air f	low direction	from Front na	anel to nower:	supply rear			
2. Weight		kg	Less than 3		011101110111111	1011 4110011011	p.	and to pond.	Juppij Toui			
Dimensions (WxHxD)		mm			(Without busba	ars and busha	ars cover)					
or amonoration (when the					(Including bus			efer to Outline	drawing).			
4. Vibration			MIL-810G,	method 514.	6, Procedure I,	test condition	n Annex C - 2.	1.3.1				
5. Shock			Less than 2	OG, half sine,	11mS. Unit is	unpacked.						
Safety/EMC												
Applicable standards: Safe	ty GH1/1.5kW		UL61010-1	. CSA22.2 No	o. 61010-1, IE0	C61010-1, EN	N61010-1.		-			
	/1.5kW				ut, J1, J2, J3, J Output & J8 (se							n Hazardous
1.2 Withstand voltage GH1	/1.5kW		Vout≤50V M Input - Grou 60V≤Vout≤ Output & J8 Output & J8 100V <vou Output & J8</vou 	Models: Input Ind: 2835Vdc 100V Models 3 (sense) - J1 3 (sense) - Gr t≤600V Model 3 (sense) - J1	- Output & J8	(sense), J1, ut & J8 (sens 5, J6, J7 & J9 c 1min, Input put & J8 (sen 5, J6, J7 & J9	J2, J3, J4, J5, e), J1, J2, J3, g (communicat - Ground: 283 nse), J1, J2, J3 g (communicat	J4, J5, J6, J7 tion options): 8 35Vdc 1min. 3, J4, J5, J6, L tion options):	& J9 (commu 850Vdc 1min. 17 and J9 (cor	on options): 4 unication option	242Vdc 1min ons): 4242Vd	c 1min,
1.3 Insulation resistance			100Mohm a	at 25°C, 70%	RH. Output to 0	Ground 500Vo	dc					
2. Conducted emission			IEC/EN6120	04-3 Industria	al environment,	Annex H tab	le H.1 , FCC P	art 15-A, VCC	-A .			
3. Radiated emission			IEC/EN6120	04-3 Industria	al environment,	Annex H tab	le H.3 and H4	, FCC Part 15-	A, VCCI-A			
4. EMC compliance EMC	C(*4)		IEC/EN6120	04-3 Industria	al environment							

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0°C to 50°C NOTES:

- *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
- *3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).
 *4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
- *5: Not including EMI filter inrush current, less than 0.2mS.

- *6: 85–132Vac or 170~265Vac. Constant load.

 *7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

 *8: For 10V—150V models: Measured with JEITA RC-9131C (1:1) probe. For 200—600V model: Measured with 100:1 probe.
- *9: For load voltage change, equal to the unit voltage rating, constant input voltage.
- *10: The maximum voltage on the power supply terminals must not exceed the rated voltage. *11: From 10% to 90% of Rated Output Voltage, with rated, resistive load. *12: From 90% to 10% of Rated Output Voltage.
- *13: For 10V model, the ripple is measured at $20\sim100\%$ of rated output voltage and rated output current.
- For other models, the ripple is measured at 10—100% of rated output votage and rated output current. B.W 5Hz~1MHz.

 *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *15: Measured at the sensing point.
- *16: Max. ambient temperature for using IEEE is $40^{\circ}\text{C}.$
- *17: Ta=25°C, rated output power.

Specifications GENESYS+ $^{\text{\tiny TM}}$ G (1kW)

Output Rating	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	100	50	34	25	17	12.5	10	7	3.5	1.7
3. Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. (*3)		85~265Va	c, continuous,	47~63Hz, Si	ngle Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3. Power Factor (Typ)		0.99 @ 10	0Vac 0.98 @	200Vac, rated	output power.						
4. Efficiency at 100Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5. Inrush current (*5)	Α	Less than 5	0A								
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of ra	ted output vol	tage							
P. Max. Load regulation (*7)		0.01% of ra	ted output vol	tage +2mV							
B. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
I. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
. Temperature coefficient	PPM/°C	50PPM/°C	from rated out	put voltage, fol	llowing 30 mir	nutes warm-u	ıp.				
5. Temperature stability				8hrs interval fo	-			line, load & t	emp.		
7. Warm-up drift				output voltage							
3. Remote sense compensation/wire (*10)	٧	2	2	5	5	5	5	5	5	5	5
D. Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
0. Down-prog.response time: Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
Transient response time	mS			recover within							1000
T. Hansioni response tille	1110									models above	100V.
12. Start up delay	Sec	Less than 6		,		2, 3, 1100			,	222.2 45010	
13. Hold-up time	mS		al, rated outpu	ıt nower							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
. Max. Line regulation (*6)			ted output cur	1				.50			300
2. Max. Load regulation (*9)			ted output cur								
B. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
I. Temperature coefficient	PPM/°C	10V~100V		°C from rated o					10	≤0	50
i. Temperature coemicient	I I IVI/ C			C from rated ou							
5. Temperature stability				Shrs. interval fo					emperature		
S. Warm-up drift				than +/-0.25%			•		•		
o. Waith-up utilit				+/-0.15% of ra							
Analogue Programming and Monitoring (Isolate	d from th			.,				g p			
1. Vout voltage programming)~5V or 0~1	OV, user select	table Accurac	v and linearit	v· +/-0 15%	of rated Vout			
2. lout voltage programming (*14)				OV, user select			•		•		
3. Vout resistor programming				full scale, user					l Vout		
1. lout resistor programming (*14)				full scale, user			-				
5. Output voltage monitor		,		electable. Accu				U.3 % UI Talet	i iout.		
					-						
5. Output current monitor (*14)		0~30 01 0	~ 10V, user se	electable. Accu	iiacy. +/-0.5/	o ul lateu luu	ı.				
Signals and Controls (Isolated from the Output)		D		:t OII		2 0 0 1					
1. Power supply OK #1 signal			iy output mon	itor. Oben con			TOR OR MA		20V M	C:-I- O	
2. CV/CC signal				•					,	imum Sink Cur	rent: 10mA
3. LOCAL/REMOTE Analogue control			· ·	lector. CC mod	de: On. CV mo	de: Off. Maxi	mum Voltage	: 30V, Maxim	ium Sink Curr	ent: 10mA.	
· · · · · · · · · · · · · · · · · · ·		Enable/Disa	ble analogue	lector. CC mod programming	de: On. CV mo control by elec	de: Off. Maxi ctrical signal	mum Voltage or dry contac	: 30V, Maxim t. Remote: 0-	ium Sink Curr ~0.6V or sho	rent: 10mA. rt. Local: 2~30	OV or open
4. LOCAL/REMOTE Analogue signal		Enable/Disa Analogue pr	ble analogue ogramming co	lector. CC mod programming on ntrol monitor si	de: On. CV mo control by elec gnal. Open coll	de: Off. Maxi ctrical signal ector. Remot	mum Voltage or dry contac e: On. Local: C	: 30V, Maxim t. Remote: 0- off. Maximum	oum Sink Curr ~0.6V or show Voltage: 30V,	rent: 10mA. rt. Local: 2~30 Maximum Sink	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		Enable/Disa Analogue pr Enable/Disa	ble analogue ogramming co ble PS output	lector. CC mod programming on ntrol monitor si by electrical s	de: On. CV mo control by elec gnal. Open coll signal or dry co	de: Off. Maxi etrical signal ector. Remot ontact. 0~0.	mum Voltage or dry contac e: On. Local: C 6V or short, 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope	uum Sink Curr ~0.6V or sho Voltage: 30V, en. User selec	rent: 10mA. rt. Local: 2~30 Maximum Sink table logic.	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		Enable/Disa Analogue pr Enable/Disa Enable/Disa	able analogue ogramming co able PS output able PS output	lector. CC mod programming on ntrol monitor si by electrical s by electrical s	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co	de: Off. Maxi ctrical signal lector. Remot ontact. 0~0. ontact. Remo	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or o	rent: 10mA. rt. Local: 2~30 Maximum Sink otable logic. open.	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d	ble analogue ogramming co ble PS output ble PS output rain programn	lector. CC mod programming of ntrol monitor si by electrical so by electrical so nable signals.	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100mA	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open. Current: 10
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lo	ogramming co ogramming co oble PS output oble PS output rain programn ow level input	lector. CC mode programming on trol monitor single by electrical some by electrical some	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu	mum Voltage or dry contact e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink otable logic. open.	OV or open. Current: 10
LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw=	ble analogue ogramming co ble PS output ble PS output rain programn ow level input = 10us minimu	lector. CC mod programming of ntrol monitor si by electrical s by electrical s nable signals. I voltage = 0.8 im. Tr,Tf=1us	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi Maximum, Mi	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu	mum Voltage or dry contact e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open. Current: 10
H. LOCAL/REMOTE Analogue signal H. LOCAL/REMOTE Analogue signal H. LOCAL/REMOTE Analogue signal H. INTERLOCK (ILC) control H. Programmed signals H. TRIGGER IN / TRIGGER OUT signals H. DAISY_IN/SO control signal		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lo trigger: tw= By electrica	ble analogue ogramming co ble PS output ble PS output rain programn by level input 10us minimu 1 Voltage: 0~	lector. CC mod programming introl monitor si by electrical si by electrica	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi Maximum, Mi or dry contact.	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu	mum Voltage or dry contact e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open. Current: 10
H. LOCAL/REMOTE Analogue signal H. LOCAL/REMOTE Analogue signal H. LOCAL/REMOTE Analogue signal H. INTERLOCK (ILC) control H. Programmed signals H. TRIGGER IN / TRIGGER OUT signals H. DAISY_IN/SO control signal		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lo trigger: tw= By electrica	ble analogue ogramming co ble PS output ble PS output rain programn by level input 10us minimu 1 Voltage: 0~	lector. CC mod programming of ntrol monitor si by electrical s by electrical s nable signals. I voltage = 0.8 im. Tr,Tf=1us	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi Maximum, Mi or dry contact.	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu	mum Voltage or dry contact e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open. Current: 10
1. LOCAL/REMOTE Analogue signal 2. ENABLE/DISABLE signal 3. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lo trigger: tw= By electrica	ble analogue ogramming co ble PS output ble PS output rain programn by level input 10us minimu 1 Voltage: 0~	lector. CC mod programming introl monitor si by electrical si by electrica	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi Maximum, Mi or dry contact.	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu	mum Voltage or dry contact e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2	: 30V, Maxim t. Remote: 0- off. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open. Current: 10
A. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control Programmed signals B. TRIGGER IN / TRIGGER OUT signals B. DAISY_IN/SO control signal B. DAISY_OUT/PS_OK #2 signal COLONISM AND Features		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=0K	oble analogue ogramming co oble PS output oble PS output rain programn oblevel input = 10us minimu I Voltage: 0~, 0V (500ohm	lector. CC mod programming introl monitor si by electrical si by electrica	de: On. CV mo control by elect gnal. Open coll signal or dry co signal or dry co Maximum volt V,Minimum hi Maximum, Mi or dry contact.	de: Off. Maxistrical signal lector. Remotontact. 0~0. ontact. Remo age 25V, Ma gh level inpun delay betw	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2 een 2 pulses	: 30V, Maxim t. Remote: 0- Iff. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms.	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open Current: 10
B. LOCAL/REMOTE Analogue signal D. ENABLE/DISABLE signal D. INTERLOCK (ILC) control Programmed signals D. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal Functions and Features Parallel operation		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=0K	ble analogue ogramming co ble PS output ble PS output rain programn ow level input 100s minimu I Voltage: 0~, 0V (500ohm	lector. CC morprogramming of the monitor single by electrical single by electrical single signals. It woltage = 0.8 mt. Tr, Tf = 1us 0.6V/2~30V of impedance) =	de: On. CV mo control by elect gnal. Open coll signal or dry cc signal or dry cc Maximum volt V,Minimum hi Maximum, Mi or dry contact. Fail	de: Off. Maxi strical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu n delay betw	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2 een 2 pulses	: 30V, Maxim t. Remote: 0- Iff. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms.	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open Current: 10
B. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control C. Programmed signals B. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal Functions and Features Parallel operation D. Series operation		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=0K Possible. U Possible. To	ible analogue ogramming co ble PS output ible PS output rain programn ow level input 100s minimu I Voltage: 0~, 0V (500ohm p to 4 identical un or output identical un	lector. CC morprogramming introl monitor si by electrical siby electrical siby electrical siby electrical sibustical signals. In voltage = 0.8 im. Tr, Tf = 1 us 0.6 V/2 ~ 30 V or impedance) = al units in Mast	de: On. CV mo control by elec gnal. Open coll signal or dry cc signal or dry cc Maximum volt V,Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man	de: Off. Maxic ctrical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu, n delay betw	mum Voltage or dry contace: On. Local: Con. Local: Con. Local: Con. Local: Con. Local: Con. Local: Con. Con. Con. Con. Con. Con. Con. Con.	: 30V, Maxim t. Remote: 0- bff. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms.	num Sink Curr ~0.6V or show Voltage: 30V, en. User select : 2~30V or on A (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink rtable logic. ppen. 27V zener)	OV or open Current: 10
B. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control C. Programmed signals B. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal Functions and Features Parallel operation D. Series operation D. Daisy chain		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=0K	ble analogue ogramming co ble PS output ble PS output rain programn ow level input 100s minimu I Voltage: 0~, 0V (500ohm p to 4 identical ur lies can be co	lector. CC morprogramming introl monitor siby electrical siby electrical sibustical sibustical signals. In voltage = 0.8 im. Tr,Tf=1us 0.6V/2~30V continued impedance) = al units in Mastits. Refer to in	de: On. CV mo control by elect gnal. Open coll signal or dry cc signal or dry cc Maximum volt V,Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man isy chain to sy	de: Off. Maxic ctrical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu, n delay betw e. Refer to insual.	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c tot voltage = 2 een 2 pulses	: 30V, Maxim t. Remote: 0-)ff. Maximum ~30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms.	uum Sink Curr ~0.6V or shoi Voltage: 30V, en. User selec : 2~30V or o A (Shunted by m high level	rent: 10mA. rt. Local: 2~3(Maximum Sink rtable logic. ppen. 27V zener) input = 5V pos	OV or open Current: 10
B. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control C. Programmed signals B. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal Functions and Features Parallel operation Series operation Daisy chain Constant power control		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lu trigger: tw= By electrica 4~5V=0K Possible. U Possible. To Power supp Limits the o	ble analogue ogramming co ble PS output ble PS output train programm ow level input 100s minimu I Voltage: 0~, 0V (500ohm pt o 4 identical urilies can be coutput power to	lector. CC morprogramming introl monitor single by electrical single by electrical single end of the signals. It is not signals and the signals in the signal in th	de: On. CV mo control by elec gnal. Open coll signal or dry cc signal or dry cc Maximum volt V,Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man isy chain to sy ed value. Progr	de: Off. Maxictrical signal ector. Remote ontact. 0~0. ontact. Remote age 25V, Magh level inpun delay between the contact. Refer to insual.	mum Voltage or dry contace: On. Local: Con. Local: Con. Local: Con. Local: Con. Local: Con. Local: Con. Con. Con. Con. Con. Con. Con. Con.	: 30V, Maxim t. Remote: 0-)ff. Maximum ~ 30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms. ual. d turn-off. cation ports o	uum Sink Curr -0.6V or shoi Voltage: 30V, en. User selec : 2~30V or o A (Shunted by m high level	rent: 10mA. rt. Local: 2~3(Maximum Sink stable logic. spen. 27V zener) sinput = 5V pos	OV or open Current: 10
. LOCAL/REMOTE Analogue signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals . DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal cunctions and Features . Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lu trigger: tw= By electrica 4~5V=0K Possible. U Possible. To Power supp Limits the o Emulates se	able analogue ogramming co ble PS output ble PS output rain programn ow level input 100s minimu I Voltage: 0~, 0V (500ohm lies can be co utput power to ries resistance	lector. CC morprogramming introl monitor single by electrical single by electrical single signals. It is voltage = 0.8 im. Tr,Tf = 1 us 0.6V/2~30V or impedance) = al units in Mast inits. Refer to inspected in Dai or a programme e. Resistance r	de: On. CV mo control by elec gnal. Open coll signal or dry cc signal or dry cc Maximum volt V,Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man isy chain to sy ed value. Progrange: 1~100	de: Off. Maxic ctrical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu n delay betw e. Refer to ins ual. nchronize the amming via 100mΩ. Progr	mum Voltage or dry contace: On. Local: C 6V or short, 2 te: 0~0.6V or ximum sink c struction man eir turn-on an the communital amming via t	: 30V, Maxim t. Remote: 0-)ff. Maximum ~ 30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms. d turn-off. cation ports of	uum Sink Curr ~0.6V or shoi Voltage: 30V, en. User selec : 2~30V or o A (Shunted by m high level	rent: 10mA. rt. Local: 2~3(Maximum Sink rtable logic. ppen. 27V zener) input = 5V pos	OV or open Current: 10
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 8. Daisy chain 14. Constant power control 15. Output resistance control		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum lu trigger: tw= By electrica 4~5V=0K Possible. U Possible. Tv Power supp Limits the o Emulates se Programma	ble analogue ogramming co ble PS output the PS output train programm ow level input 100s minimu I Voltage: 0~, 0V (5000hm lies can be co utput power to ble Output rise output	lector. CC morprogramming introl monitor single by electrical single by electrical single end of the signals. It is not signals and the signals in the signal in th	de: On. CV mo control by elec gnal. Open coll signal or dry cc signal or dry cc Maximum volt V.Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man isy chain to sy ed value. Progr range: 1~100 all slew rate. Pi	de: Off. Maxic trical signal ector. Remot ontact. 0~0. ontact. Remo age 25V, Ma gh level inpu n delay betw e. Refer to insual. nchronize the amming via 10mΩ. Progr rogramming	mum Voltage or dry contace: On. Local: C 6V or short, 2 te: 0~0.6V or ximum sink c struction man eir turn-on an the communital amming via t	: 30V, Maxim t. Remote: 0-)ff. Maximum ~ 30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms. d turn-off. cation ports of	uum Sink Curr ~0.6V or shoi Voltage: 30V, en. User selec : 2~30V or o A (Shunted by m high level	rent: 10mA. rt. Local: 2~3(Maximum Sink stable logic. spen. 27V zener) sinput = 5V pos	OV or open Current: 10
B. LOCAL/REMOTE Analogue signal D. ENABLE/DISABLE signal D. INTERLOCK (ILC) control D. Programmed signals D. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal D. DAISY_OUT/PS_OK #2 signal D. DAISY_OUT/PS_OK #3 D. DAISY_OUT/PS_OK #4 D. DAISY_OUT/PS_OK #3 D. DAISY_OUT/PS_OK #4 D. DAISY_OUT		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=OK Possible. U Possible. Ty Power supp Limits the o Emulates se Programma Programmin	ible analogue ogramming couble PS output ible PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (5000hm p to 4 identical willies can be coutput power teries resistance ble Output rising via the com	lector. CC morprogramming and introl monitor single by electrical single signals. It woltage = 0.8 im. Tr. If = 1 us 0.6 V/2 ~ 30 V c impedance) = all units in Mast introl monected in Dai to a programme e. Resistance relation polypool in programme e. Resistance relation programme e. and Output faramunication polypool in programme e. and Output faramunication polypool in the programme e. Resistance relation programme e. and Output faramunication polypool in the programme e.	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V. Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man sisy chain to sy d value. Progr range: 1~100 all slew rate. P orts or the front	de: Off. Maxictrical signal lector. Remotontact. 0~0. ontact. Remotontact. Refer to insual. nochronize the amming via 100mΩ. Programming it panel.	mum Voltage or dry contac e: On. Local: C 6V or short, 2 te: 0~0.6V o ximum sink c it voltage = 2 een 2 pulses struction man eir turn-on an the communi amming via t range: 0.000	: 30V, Maxim t. Remote: 0- iff. Maximum ~ 30V or ope r short. Local urrent 100m/ 1.5V, Maximu 1ms. d turn-off. cation ports o the communic 1~999.99V/r	rum Sink Curr -0.6V or shoi Voltage: 30V, In. User select 2 ~ 30V or of A (Shunted by m high level in or the front part sation ports or mS or A/mS.	rent: 10mA. rt. Local: 2~3(Maximum Sink stable logic. spen. 27V zener) sinput = 5V pos	OV or open. Current: 10
B. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control Programmed signals B. TRIGGER IN / TRIGGER OUT signals D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal Functions and Features Parallel operation D. Series operation D. Constant power control D. Output resistance control S. Slew rate control		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=OK Possible. U Possible. Ty Power supp Limits the o Emulates se Programma Programmin	ible analogue ogramming couble PS output ible PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (5000hm p to 4 identical willies can be coutput power teries resistance ble Output rising via the com	lector. CC morprogramming and introl monitor single by electrical single signals. It woltage = 0.8 im. Tr. If = 1 us 0.6 V/2 ~ 30 V c impedance) = all units in Mast introl monected in Dai to a programme e. Resistance relation polypool in programme e. Resistance relation programme e. and Output faramunication polypool in programme e. and Output faramunication polypool in the programme e. Resistance relation programme e. and Output faramunication polypool in the programme e.	de: On. CV mo control by elec gnal. Open coll signal or dry co signal or dry co Maximum volt V. Minimum hi Maximum, Mi or dry contact. Fail ter/Slave mode astruction man sisy chain to sy d value. Progr range: 1~100 all slew rate. P orts or the front	de: Off. Maxictrical signal lector. Remotontact. 0~0. ontact. Remotontact. Refer to insual. nochronize the amming via 100mΩ. Programming it panel.	mum Voltage or dry contace: On. Local: C 6V or short, 2 te: 0~0.6V or short, 2 truction man ceir turn-on an anthe communiamming via t range: 0.000	: 30V, Maxim t. Remote: 0- iff. Maximum ~ 30V or ope r short. Local urrent 100m/ 1.5V, Maximu 1ms. d turn-off. cation ports o he communic 1~999.99V/r	rum Sink Curr -0.6V or shoi Voltage: 30V, In. User select 2 ~ 30V or of A (Shunted by m high level in or the front part sation ports or mS or A/mS.	ent: 10mA, rt. Local: 2~3(Maximum Sink stable logic. open. 27V zener) input = 5V pos	OV or open. Current: 10
B. LOCAL/REMOTE Analogue signal B. ENABLE/DISABLE signal B. INTERLOCK (ILC) control C. Programmed signals B. TRIGGER IN / TRIGGER OUT signals B. DAISY_IN/SO control signal B. DAISY_OUT/PS_OK #2 signal C. DAISY_OUT/PS_OK #2 signal Cunctions and Features Parallel operation B. Daisy chain C. Constant power control B. Output resistance control C. Seliev rate control C. Arbitrary waveforms Corgramming and Readback (USB, LAN, RS-232/		Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum le trigger: tw= By electrica 4~5V=OK Possible. U Possible. To Power supp Limits the o Emulates se Programma Programmir	ble analogue ogramming couble PS output ible PS output rain programm ow level input 10us minimu I Voltage: 0~, 0V (5000hm p to 4 identical un lies can be coutput power to ries resistance ble Output rising via the compt to 100 step.	lector. CC morprogramming introl monitor single by electrical single by electrical single signals. It woltage = 0.8 im. Tr,Tf = Tus 0.6V/2~30V continued in Mast in Mast in Mast in Daily a programme e. Resistance reliand on the programme e. Resistance reliand in the programme e. Resistance reliand in the programme e. Resistance reliand on the programme e. Resistance reliand on the programme e. Resistance reliand output farmunication possible stored	de: On. CV mo control by elect gnal. Open collisignal or dry contact. Fail ter/Slave mode anstruction man isy chain to sy collisignal or dry collision or dry collis	de: Off. Maxictrical signal lector. Remotontact. 0~0. ontact. Remotontact. Refer to insual. nochronize the amming via 100mΩ. Programming to panel. cells. Activation.	mum Voltage or dry contace: On. Local: C 6V or short, 2 te: 0~0.6V or short, 2 te: 0~0.6V or short, 2 te: 0~0.6V or short, 2 truth of the voltage = 2 pulses struction man the communiamming via t range: 0.000 tition by communition by communities are also be a community by the community b	: 30V, Maxim t. Remote: 0- iff. Maximum ~ 30V or ope r short. Local urrent 100m/ 2.5V, Maximu 1ms. ual. d turn-off. cation ports o ne communic 1~999.99V/r nand via the c	um Sink Curr -0.6V or shoi Voltage: 30V, In. User select 2 30V or of A (Shunted by Implication ports or Implication ports or Implication some some some some some some some some	ent: 10mA, rt. Local: 2~3(Maximum Sink stable logic. ppen. 27V zener) input = 5V pos nel. the front pane	OV or open Current: 10 sitive edge
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Specifications GENESYS+ $^{\text{\tiny TM}}$ G (1.7kW)

Output Rating	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	170	85	56	42	28	21	17	11.2	5.6	2.8
3. Rated output power	W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. (*3)			c, continuous	, 47∼63Hz, Si	ingle Phase						
2. Maximum Input current at 100% load (100/200)	Α	20/10									
3. Power Factor (Typ)		_		@ 200Vac, rate			07/00	00/00	00.00	00.00	00.00
4. Efficiency at 100Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5. Inrush current (*5)	A	Less than 50			40		100	100	4=0	000	
Constant Voltage Mode	V	0.010/ -44	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6) 2. Max. Load regulation (*7)			ed output vol	-							
• • • • • • • • • • • • • • • • • • • •	mV	50	50	50	60	60	75	75	75	120	500
3. Ripple and noise (p-p, 20MHz) (*8) 4. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
5. Temperature coefficient	PPM/°C			tput voltage, fo	1.	1.		12	0	20	100
6. Temperature stability				8hrs interval fo			•	line load & te	emn		
7. Warm-up drift				output voltage					omp.		
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	20	20	20	20	20	20	25	50	100	100
10. Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11. Transient response time	mS								of rated output		,,,,,,,
	5								OV. 2mS, for m		100V.
12. Start up delay	Sec	Less than 6	Sec								
13. Hold-up time	mS	16mS typica	al, rated outpu	ut power							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of rat	ed output cur	rrent. +2mA							
2. Max. Load regulation (*9)		0.02% of rat	ed output cur	rrent. +5mA						_	
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
4. Temperature coefficient	PPM/°C	10V~100V	,	°C from rated of							
				C from rated ou							
5. Temperature stability				Bhrs. interval fo					•		
6. Warm-up drift				than +/-0.25% +/-0.15% of ra							
Analogue Programming and Monitoring (Isolate	d from th		v. LUSS Man	17-0.1370 0116	alcu output o	JITCHE OVEL SE	Tilliutes tolic	Jwilly power of	111.		
Vout voltage programming			~5V or 0~1	OV, user selec	table Accura	cv and linear	itv: +/-0 15%	of rated Vout			
2. lout voltage programming (*14)				OV, user selec		-	•				
3. Vout resistor programming				full scale, use		-	•		Vout		
4. lout resistor programming (*14)				full scale, use		•					
in tout recictor programming (1 1)			~10V, user se					0.070 01 14104	10011		
5. Output voltage monitor					Ifacv: +/-0.5	o% of rated vo					
					-						
Output voltage monitor Output current monitor (*14) Gunals and Controls (Isolated from the Output)				electable. Accu	-						
6. Output current monitor (*14) Signals and Controls (Isolated from the Output)		0~5V or 0~	~10V, user se	electable. Accu	ıracy: +/-0.5	5% of rated lo	ut.	aximum Voltad	ne: 30V. Maxim	num Sink Curi	rent: 10mA
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~5V or 0~	-10V, user so	electable. Accu	ector. Outpu	5% of rated lo	ut. out Off: Off. M		ge: 30V, Maxim um Sink Curre		rent: 10m/
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~5V or 0~ Power supplicy/CC Mon	~10V, user selly output monitor. Open col	electable. Accu nitor. Open coll llector. CC mo	ector. Output de: On. CV m	5% of rated lo t On: On. Outp lode: Off. Max	ut. out Off: Off. M kimum Voltage	e: 30V, Maxim	ge: 30V, Maxim um Sink Currei ~0.6V or short.	nt: 10mA.	
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		0~5V or 0~ Power supplicV/CC Mon Enable/Disa	-10V, user so ly output mor itor. Open col ble analogue	nitor. Open coll llector. CC mor programming	lector. Output de: On. CV m control by el	ow of rated lo t On: On. Outplode: Off. Max ectrical signa	ut. out Off: Off. M kimum Voltago I or dry contact	e: 30V, Maxim ct. Remote: 0~	um Sink Curre -0.6V or short.	nt: 10mA. Local: 2~30)V or open
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		O~5V or O~ Power supplicV/CC Mon Enable/Disa Analogue pro	ly output mor itor. Open col ble analogue ogramming co	nitor. Open coll llector. CC mo programming entrol monitor si	lector. Output de: On. CV m control by elignal. Open co	t On: On. Outplode: Off. Maxectrical signa	ut. out Off: Off. M kimum Voltage I or dry contac te: On. Local:	e: 30V, Maxim ct. Remote: 0~ Off. Maximum \	um Sink Curre	nt: 10mA. Local: 2~30 aximum Sink)V or open
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		0~5V or 0~ Power supply CV/CC Mon Enable/Disa Analogue pro Enable/Disa	ly output mor itor. Open col ble analogue ogramming co ble PS output	nitor. Open coll llector. CC mor programming antrol monitor si t by electrical s	lector. Outpur de: On. CV m control by el ignal. Open co	t On: On. Outp tode: Off. May ectrical signa ollector. Remo contact. 0~0	ut. out Off: Off. M kimum Voltage I or dry contac te: On. Local: (.6V or short, 2	e: 30V, Maxim ct. Remote: 0~ Off. Maximum \ 2~30V or ope	um Sink Currei -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30 aximum Sink ble logic.)V or open
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~5V or 0- Power supple CV/CC Mone Enable/Disa Analogue pro Enable/Disa Enable/Disa Enable/Disa	volumer set of the set	electable. Accu nitor. Open coll llector. CC mon programming nntrol monitor si t by electrical s t by electrical s	lector. Output de: On. CV m control by elignal. Open co signal or dry signal or dry	ow of rated lo t On: On. Outplode: Off. Mavectrical signa ollector. Remo contact. 0~0 contact. Remo	out Off: Off. M kimum Voltagu I or dry contac te: On. Local: 1 .6V or short, 2 ote: 0~0.6V o	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 2~30V or ope or short. Local	um Sink Currel ~0.6V or short. Voltage: 30V, M n. User selecta	nt: 10mA. Local: 2~30 aximum Sink ble logic. en.)V or open
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~5V or 0- Power supplicy/CC Monenable/Disa Analogue profenable/Disa Enable/Disa Two open di	~10V, user so ly output mor itor. Open col ble analogue ogramming co ble PS output ble PS output rain programr	electable. Accu- nitor. Open coll ellector. CC mon programming introl monitor si t by electrical s t by electrical s mable signals.	lector. Outpute: On. CV mcontrol by elignal. Open cosignal or dry Maximum vo	t On: On. Outplode: Off. Maxectrical signa ollector. Remocontact. 0~0 contact. Remoltage 25V, Maxectrical signa ollector. Remocontact. Remoltage 25V, Maxectrical signa of the	out Off: Off. M cimum Voltage I or dry contacte: On. Local: (.6V or short, 2 .6v or short, 2	e: 30V, Maxim ct. Remote: 0- Off. Maximum V 2~30V or ope or short. Local current 100mA	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Power supply CV/CC Mon Enable/Disa Analogue prr Enable/Disa Enable/Disa Two open di Maximum Ic	value of the control	electable. Accu- nitor. Open coll ellector. CC mon programming introl monitor si t by electrical s t by electrical s mable signals.	lector. Output de: On. CV m control by elignal. Open co signal or dry signal or dry Maximum vo V, Minimum	t On: On. Output one: On: On. Output one: Off. May ectrical signa ollector. Remo contact. 0~0 contact. Remo ltage 25V, Mahigh level inp	ut. out Off: Off. Mf kimum Voltage I or dry contacte: On. Local: .6V or short, 2 ote: 0~0.6V of aximum sink of ut voltage =	e: 30V, Maximot. Remote: 0~ Off. Maximum V 2~30V or ope or short. Local. current 100mA 2.5V, Maximum	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		Power supplicy/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Two open di Maximum lo trigger: tw	y output mor itor. Open col ble analogue ogramming co ble PS output ble PS output rain programm ow level input 10us minimu	electable. Accu- nitor. Open coll llector. CC mon programming introl monitor si t by electrical s t by electrical s mable signals. voltage = 0.8	lector. Output de: On. CV m control by el ignal. Open co signal or dry Maximum vo V,Minimum Maximum, M	t On: On. Output ode: Off. Maxectrical signa ollector. Remo contact. O~0 contact. Remoltage 25V, Mahigh level inp din delay betw	ut. Dut Off: Off. Mf kimum Voltage I or dry contacte: On. Local: .6V or short, 2 aximum sink out voltage =	e: 30V, Maximot. Remote: 0~ Off. Maximum V 2~30V or ope or short. Local. current 100mA 2.5V, Maximum	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		Power suppi CV/CC Mon Enable/Disa Analogue pre Enable/Disa Two open di Maximum lo trigger: tw — By electrical	ly output more itor. Open college analogue ogramming college PS output ble PS output rain programming ow level input 10us minimut Voltage: 0~	electable. Accu- nitor. Open coll llector. CC mo- programming introl monitor si t by electrical si t by electrical si mable signals. voltage = 0.8 jm. Tr,Tf=1us	lector. Output de: On. CV m control by elignal. Open cosignal or dry signal or dry Maximum vo V, Minimum Maximum, N or dry contac	t On: On. Output ode: Off. Maxectrical signa ollector. Remo contact. O~0 contact. Remoltage 25V, Mahigh level inp din delay betw	ut. Dut Off: Off. Mf kimum Voltage I or dry contacte: On. Local: .6V or short, 2 aximum sink out voltage =	e: 30V, Maximot. Remote: 0~ Off. Maximum V 2~30V or ope or short. Local. current 100mA 2.5V, Maximum	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		Power suppi CV/CC Mon Enable/Disa Analogue pre Enable/Disa Two open di Maximum lo trigger: tw — By electrical	ly output more itor. Open college analogue ogramming college PS output ble PS output rain programming ow level input 10us minimut Voltage: 0~	nitor. Open coll llector. CC monoprogramming introl monitor si t by electrical si mable signals. voltage = 0.8 jm. Tr,Tf=1us 0.6V/2~30V of	lector. Output de: On. CV m control by elignal. Open cosignal or dry signal or dry Maximum vo V, Minimum Maximum, N or dry contac	t On: On. Output ode: Off. Maxectrical signa ollector. Remo contact. O~0 contact. Remoltage 25V, Mahigh level inp din delay betw	ut. Dut Off: Off. Mf kimum Voltage I or dry contacte: On. Local: .6V or short, 2 aximum sink out voltage =	e: 30V, Maximot. Remote: 0~ Off. Maximum V 2~30V or ope or short. Local. current 100mA 2.5V, Maximum	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features		0~5V or 0~ Power suppi CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Two open di Maximum lo trigger: tw = By electrical 4~5V=0K,	voltov, user set of the voltov, user set of the voltov more iter. Open coloble analogue orgamming coloble PS output iter in programming the voltov more input to the voltov more input to the voltov more input to voltoge: 0 ~ 0V (5000hm)	nitor. Open coll llector. CC monoprogramming introl monitor si t by electrical si mable signals. voltage = 0.8 jm. Tr,Tf=1us 0.6V/2~30V of	ector. Outpu de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo IV, Minimum Maximum, N or dry contac Fail	100: On. Output of the control of th	out Off: Off. M kimum Voltagi I or dry contac te: On. Local: .6V or short, 2 ote: 0~0.6V of aximum sink of ut voltage — veen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul 1ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation		O~5V or O~6 Power supple CV/CC Mon Enable/Disa Analogue pro Enable/Disa Enable/Disa Two open di Maximum le trigger: tw= By electrical 4~5V=OK, Possible. Up Possible. Tv	y output mor itor. Open col ble analogue or or or other programming col ble PS output ble PS output ain programming welvel input 10us minimut Voltage: 0	electable. Accu- nitor. Open coll llector. CC mo- programming introl monitor si t by electrical si t by electrical si mable signals. voltage = 0.8 um. Tr,Tf= 1us 0.6V/2~30V (in impedance) = al units in Mast nits. Refer to ir	ector. Outpu de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vo VV, Minimum Maximum, N or dry contac Fail	is of rated lo it On: On. Outprode: Off. May ectrical signa ollector. Remo contact. 0~0 contact. Rem iltage 25V, Mi high level inp din delay betw t.	out Off: Off. M kimum Voltagi I or dry contacte: On. Local: .6V or short, 2 ote: 0~0.6V of aximum sink of ut voltage = veen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul 1ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation		O~5V or O~6 Power supple CV/CC Mon Enable/Disa Analogue pro Enable/Disa Enable/Disa Two open di Maximum le trigger: tw= By electrical 4~5V=OK, Possible. Up Possible. Tv	y output mor itor. Open col ble analogue or gramming co ble PS output ble PS output ain programm we level input 10us minimut Voltage: 0 ~ 0V (5000hm) to 4 identical us of identical user	nitor. Open coll llector. CC monoprogramming introl monitor si t by electrical si mable signals. voltage = 0.8 jm. Tr,Tf=1us 0.6V/2~30V of impedance) =	ector. Outpu de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vo VV, Minimum Maximum, N or dry contac Fail	is of rated lo it On: On. Outprode: Off. May ectrical signa ollector. Remo contact. 0~0 contact. Rem iltage 25V, Mi high level inp din delay betw t.	out Off: Off. M kimum Voltagi I or dry contacte: On. Local: .6V or short, 2 ote: 0~0.6V of aximum sink of ut voltage = veen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul 1ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30 aximum Sink ible logic. en. 27V zener)	OV or open Current: 10
6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain		O~5V or O- Power suppi CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Two open di Maximum le trigger: tw = By electrical 4~5V=OK, Possible. Up Possible. Tv Power suppi	y output mor itor. Open col ble analogue or gramming co ble PS output ble PS output itain programming welvel input 10us minimu. Voltage: 0 ~ 0V (500ohm ot 4 identical u ities can be co	electable. Accu- nitor. Open coll llector. CC mo- programming introl monitor si t by electrical si mable signals. voltage = 0.8 jm. Tr,Tf= 1us 0.6V/2~30V (i) impedance) = al units in Mast nits. Refer to ir onnected in Da	ector. Outpu de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo VV, Minimum Maximum, N or dry contac Fail	is of rated lo ton: On. Outputed in the control of	out Off: Off. M dimum Voltagil or dry contacte: On. Local: .6V or short, 2 ote: 0~0.6V of aximum sink of ut voltage = veen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul 1ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~3(aximum Sink ble logic. en. ety zener) put = 5V pos	OV or open Current: 10
5. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control		O~5V or O- Power suppl CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Two open di Maximum le trigger: tw= By electrica 4~5V=OK, Possible. Up Possible. Tv Power supp Limits the o Emulates see	y output mor itor. Open col ble analogue or gramming co ble PS output ble PS output ain programm we level input 10us minimu. Voltage: 0 ~ 0V (5000hm or ot 4 identical u lies can be coutput power tries resistance	electable. Accu- nitor. Open coll llector. CC mo- programming introl monitor si t by electrical s anable signals. voltage = 0.8 jm. Tr,Tf= 1us 0.6V/2~30V (in) impedance) = al units in Mast nits. Refer to in pronnected in Da o a programme i.e. Resistance i	ector. Output de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vo viv, Minimum Maximum, Mor dry contactification maisry chain to sed value. Progrange: 1~10	in the second of the second o	out Off: Off. M dimum Voltagi I or dry contacte: On. Local: 6V or short, 2 ote: 0~0.6V of eximum sink of ut voltage = veen 2 pulses struction man the community ramming via	e: 30V, Maxim ct. Remote: 0- Off. Maximum \(2 \) 30V or ope or short. Local current 100mA 2.5V, Maximul 1ms. and turn-off. ication ports of the communic	um Sink Currer -0.6V or short. Voltage: 30V, M -n. User selecta -2 ~ 30V or op -3 (Shunted by 2 -3 m high level in	nt: 10mA. Local: 2~3(aximum Sink ble logic. en. et. V zener) put = 5V pos	OV or open Current: 10
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5. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution 4. lout programming resolution		Power supple CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable	y output mor itor. Open col ble analogue ogramming co ble PS output ble PS output ain programming to ble PS output ain programming to low similar of the programming to the programming	electable. Accu- nitor. Open coll llector. CC mo- programming introl monitor si t by electrical s mable signals. voltage = 0.8 m. Tr,Tf = 1us 0.6V/2~30V (in impedance) = al units in Mast no ac programme i.e. Resistance in ee and Output fa munication points can be store is can be store is can be store is age rent +0.2% of oltage urrent	racy: +/-0.s racy: +/-0.s racy: +/-0.s rector. Outpu de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vo rV, Minimum Maximum, N or dry contac Fail ter/Slave mo nstruction ma isy chain to s ed value. Pro range: 1~10 all slew rate. orts or the fro d in 4 memo	is of rated lo ton: On. Outplode: Off. May ectrical signa ollector. Remo contact. 0~0 contact. Remo ltage 25V, M high level inp lin delay bety t. de. Refer to ir inual. yrpchronize th gramming via 000mΩ. Prog Programming nt panel. yry cells. Activ 60	out Off: Off. M kimum Voltage I or dry contacte: On. Local: .6V or short, 2 ote: 0—0.6V of aximum sink of ut voltage = eveen 2 pulses instruction mar the community amming via a range: 0.000 attion by community	e: 30V, Maxim ct. Remote: 0- Off. Maximum V 2-30V or ope or short. Local current 100mA 2.5V, Maximum 1 ms. and turn-off. cication ports of the communic 11-999.99V/r mand via the c	um Sink Currei -0.6V or short. Voltage: 30V, M ·n. User selecta : 2~30V or op a (Shunted by 2 m high level in r the front pane ation ports or t nS or A/mS. ommunication	nt: 10mA. Local: 2~3(aximum Sink ible logic. en. i77V zener) put = 5V pos el. he front pane	OV or open Current: 10 Sitive edge
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6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Power supp CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Enable/Disa Enable/Disa Enable/Disa Enable/Disa Two open di Maximum Ic trigger: tw = By electrica 4~5V=OK. Possible. Ty Power supp Limits the o Emulates sea Programmin Profiles of u 10 0.05% of rat 0.002% of r 0.002% of r 0.005% of rat 0.005% of rat	y output mor itor. Open col ble analogue ogramming co ble PS output ble PS output ain programming to ble PS output ain programming to low similar of the programming to the programming	electable. Accumitor. Open coll llector. CC monogramming introl monitor sit by electrical sit by elect	racy: +/-0.s racy: +/-0.s racy: +/-0.s rector. Outpu de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vo rV, Minimum Maximum, N or dry contac Fail ter/Slave mo nstruction ma isy chain to s ed value. Pro range: 1~10 all slew rate. orts or the fro d in 4 memo	is of rated lo ton: On. Outplode: Off. May ectrical signa ollector. Remo contact. 0~0 contact. Remo ltage 25V, M high level inp lin delay bety t. de. Refer to ir inual. yrpchronize th gramming via 000mΩ. Prog Programming nt panel. yry cells. Activ 60	out Off: Off. M kimum Voltage I or dry contacte: On. Local: .6V or short, 2 ote: 0—0.6V of aximum sink of ut voltage = eveen 2 pulses instruction mar the community amming via a range: 0.000 attion by community	e: 30V, Maxim ct. Remote: 0- Off. Maximum V 2-30V or ope or short. Local current 100mA 2.5V, Maximum 1 ms. and turn-off. cication ports of the communic 11-999.99V/r mand via the c	um Sink Currei -0.6V or short. Voltage: 30V, M ·n. User selecta : 2~30V or op a (Shunted by 2 m high level in r the front pane ation ports or t nS or A/mS. ommunication	nt: 10mA. Local: 2~3(aximum Sink ible logic. en. i77V zener) put = 5V pos el. he front pane	OV or open Current: 10 Sitive edge

Specifications GENESYS+™ G (1/1.7kW)

Protective Functions	V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection				power supply o y AC input recy							
2. Over-voltage protection (OVP)		Output shut	-down. Reset	t by AC input re	ecycle in auto	start mode, by	OUTPUT butto	on, by rear pa	nel or by com	munication.	
3. Over-voltage programming range	٧	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming accuracy		+/-1% of ra	ated output v	oltage							
5. Output under voltage limit (UVL)		Prevents fro	m adjusting	Vout below lim	it. Does not a	pply in analog	gue programmi	ing. Preset by	front panel or	r communicati	on port.
6. Over temperature protection		Shuts down	the output. A	Auto recovery b	y autostart mo	ode.					
7. Output under voltage limit (UVL)		Prevents ad	justment of V	out below limi	t.						
8. Output under voltage protection (UVP)				out below limi by OUTPUT bu				e condition. F	Reset by AC ir	put recycle in	autostart
Front Panel											
1. Control functions		Vout/lout/Po OVP/UVL/U Protection F Communica Output ON/O Communica Analogue C	ation Function OFF. Front Pa ation Function ontrol Function	anual adjust djust VP, UVL,UVP, I ns - Selection o	of LAN,IEEE,R of Baud Rate, of Voltage/resis	S-232,RS-48 Address, IP a stive program	nd communica ming, 5V/10V,	ition language).	ce.	
2. Display				0.05% of rated 0.2% of rated o			t.				
3. Front Panel Buttons Indications		OUTPUT ON	I, ALARM, PF	REVIEW, FINE,	COMMUNICA	TION, PROTE	CTION,CONFIG	URATION, SY	STEM, SEQUI	ENCER.	
4. Front Panel Display Indications				CV, CC, CP, E n), RS/USB/LAN					ırt, Safetstart,	Foldback V/I,	
Environmental Conditions											
1. Operating temperature		0~50°C, 1	00% load.								
2. Storage temperature		-30~85°C									
3. Operating humidity	%	20~90% R	H (no conder	nsation).							
4. Storage humidity	%	10~95% R	H (no condei	nsation).							
5. Altitude		Operating: 1	0000ft (3000	Om), output curi	rent derating 2	2%/100m or Ta	a derating 1°C/	100m above 2	2000m. Non o	perating: 4000	Oft (12000m).
Mechanical		, ,								, , , ,	
1. Cooling		Forced air o	oolina by int	ernal fans. Air t	flow direction:	: from Front p	anel to power:	supply rear			
2. Weight	kg	Less than 5									
3. Dimensions (WxHxD)	mm	W: 423, H:	43.6, D: 44	1.5 (Without bu 3.2 (Including) (Refer to Outl	ine drawing).			
4. Vibration		-		6, Procedure I,							
5. Shock		Less than 2	OG, half sine.	, 11mS. Unit is	unpacked.						
Safety/EMC				,							
1. Applicable standards: Safety G1kW/G1.7kW		UI 61010-1	. CSA22.2 N	o.61010-1, IEC	61010-1. FN	61010-1					
1.1 Interface classification G1kW/1.7kW		Vout≤50V N	Nodels: Outp	ut, J1, J2, J3, c Output & J8 (se	J4, J5, J6, J7,	J8 (sense) &					n Hazardous.
1.2 Withstand voltage G1kW/1.7kW		Vout≤50V M Input - Grou 60V≤Vout≤ Output & J8 Output & J8 100V <vou Output & J8</vou 	Models: Input ind: 2835Vdd 100V Models 3 (sense) - J1 8 (sense) - G t≤600V Models 8 (sense) - J1	- Output & J8	ut & J8 (sense 5, J6, J7 & J9 c 1min, Input tput & J8 (ser 5, J6, J7 & J9	J2, J3, J4, J5 e), J1, J2, J3, (communica - Ground: 28 nse), J1, J2, J (communica	, J6, J7 & J9 (J4, J5, J6, J7 tion options): 8 35Vdc 1min. 3, J4, J5, J6, c tion options):	& J9 (commons 1985) & J9 (commons 1985) & J7 and J9 (co	on options): 4 unication opti . mmunication	242Vdc 1min, ons): 4242Vdc	, c 1min,
1.3 Insulation resistance		100Mohm a	at 25°C, 70%	RH. Output to (Ground 500Vd	lc					
2. Conducted emission		IEC/EN6120	04-3 Industria	al environment,	, Annex H tabl	e H.1 , FCC P	art 15-A, VCC	I-A .			
3. Radiated emission		IEC/EN6120)4-3 Industria	al environment,	Annex H tabl	e H.3 and H4	I, FCC Part 15-	-A, VCCI-A			

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0°C to 50°C

- $^{\star}1$: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
- *3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).
- *4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m. *5: Not including EMI filter inrush current, less than 0.2mS.
- *6: 85~132Vac or 170~265Vac. Constant load.
- * 7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- $^{*}8: For 10V \sim 150V \ models: Measured \ with \ JEITA \ RC-9131C \ (1:1) \ probe. For 200 \sim 600V \ model: Measured \ with \ 100:1 \ probe.$
- *9: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
- *11: From 10% to 90% of Rated Output Voltage, with rated, resistive load.
- *12: From 90% to 10% of Rated Output Voltage.
- *13: For 10V model, the ripple is measured at 20 \sim 100% of rated output voltage and rated output current.
- For other models, the ripple is measured at $10\sim100\%$ of rated output voltage and rated output current. B.W $5Hz\sim1MHz$.
- *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

Sie haben Fragen oder wünschen eine Beratung? Angebotsanfrage unter 07121 / 51 50 50 oder über info@datatec.de

- *15: Measured at the sensing point.
 *16: Maximum ambient temperature for IEEE option is 40°C.
- *17: Ta=25°C, rated output power.

Specifications GENESYS+™ G (2.7kW)

Output Rating	G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	265	135	90	68	45	34	27	18	9	4.5
3. Rated output power	W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 40 3-Phase, 48 1-Phase, 20	00V models: 3 80V models: 3 00V models:	170~265Vac, 342~460Vac, 342~528Vac, 170~265Vac,	47~63Hz (0 47~63Hz (0 47~63Hz (0	Covers 380/40 Covers 380/40 Covers 200/20	00/415Vac) 00/415/440/4 08/230/240Va	ac)	4001/	d-1 F.FA.O.	2001/
2. Maximum Input current at 100% load		1-Phase, 20	00V models:	16.5A @ 200	Vac					dels: 5.5A @	380Vac
3. Power Factor (Typ)				0/380Vac, rat							
4. Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5. Inrush current (*6)	A	Less than 5	1								
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.01% of ra	ted output vo	Itage							
2. Max. Load regulation (*8)		0.01% of ra	ted output vo	Itage +5mV							
3. Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	80	80	100	120	200	480
4. Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	10	12	15	15	15	20	60	100
5. Temperature coefficient	PPM/°C	50PPM/°C	from rated ou	tput voltage, f	ollowing 30 n	ninutes warm-	up.				
6. Temperature stability		0.01% of ra	ted Vout over	8hrs interval	following 30	minutes warm	-up. Constan	t line, load & t	temp.		
7. Warm-up drift		Less than 0	.05% of rated	output voltag	e+2mV over	30 minutes fo	llowing powe	er on.			
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	100
10. Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11. Transient response time	mS	Time for ou	tput voltage t	o recover with	in 0.5% of its	rated output f	or a load cha	nge 10~90%	of rated outpu		'
12. Start up delay	Sec	Less than 6	Sec								
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.05% of ra	ted output cu	rrent.		•					
2. Max. Load regulation (*13)		0.08% of ra	ted output cu	rrent.							
3. Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4. Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5. Temperature coefficient	PPM/°C	10V~100V		, 150V~600V				ollowing 30 m	inutes warm-ı		
6. Temperature stability				8hrs. interval						- P -	
7. Warm-up drift							· ·			s following pov	ver on
<u> </u>			. Lood than 1	7 0.2070, 1001	0001. 200	7 (11(11) 1 / 0.10	570 01 14104 01	atput ourront o	¥01 00 111111dt00	o lonowing por	101 011.
)5\/ or 01	10V ugar gala	etable Accur	acy and linear	ity: 1 / 0 159	% of rated Vous	+		
1. Vout voltage programming		0~100%, 0		10V, user sele		•	•		t.		
Vout voltage programming Inut voltage programming (*15)		0~100%, 0 0~100%, 0	0~5V or 0~1	10V, user sele	ctable. Accur	acy and linear	ity: +/-0.4%	of rated lout.			
Nout voltage programming Iout voltage programming (*15) Wout resistor programming		0~100%, 0 0~100%, 0 0~100%, 0)~5V or 0~1)~5/10Kohm	10V, user sele full scale, us	ctable. Accur er selectable.	acy and linear Accuracy and	ity: +/-0.4% linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
Nout voltage programming lout voltage programming (*15) Vout resistor programming lout voltage programming lout resistor programming (*15)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0)~5V or 0~1)~5/10Kohm)~5/10Kohm	10V, user sele full scale, us full scale, us	ctable. Accur er selectable. er selectable.	acy and linear Accuracy and Accuracy and	ity: +/-0.4% linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor		0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s	10V, user sele n full scale, us n full scale, us electable. Acc	ctable. Accur er selectable. er selectable. euracy: +/-0.	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s	10V, user sele full scale, us full scale, us	ctable. Accur er selectable. er selectable. euracy: +/-0.	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s	10V, user sele i full scale, us i full scale, us electable. Acc electable. Acc	ctable. Accur er selectable. er selectable. euracy: +/-0. euracy: +/-0.	acy and lineari Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +,	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout. d lout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~5V or 0-	$0\sim5V$ or $0\sim1$ $0\sim5/10$ Kohm $0\sim5/10$ Kohm $\sim10V$, user s $\sim10V$, user s	10V, user sele i full scale, us i full scale, us electable. Acc electable. Acc nitor. Open co	ctable. Accurrer selectable. er selectable. er selectable. euracy: +/-0. euracy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%. t On: On. Outp	ity: +/-0.4% I linearity: +/ I linearity: +/	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout. d lout. ge: 30V, Maxi	imum Sink Cu	rrent: 10m/
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~100%, C 0~5V or 0-	$0\sim5V$ or $0\sim1$ $0\sim5/10$ Kohm $0\sim5/10$ Kohm $\sim10V$, user s $\sim10V$, user s	10V, user sele i full scale, us i full scale, us electable. Acc electable. Acc	ctable. Accurrer selectable. er selectable. er selectable. euracy: +/-0. euracy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%. t On: On. Outp	ity: +/-0.4% I linearity: +/ I linearity: +/	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout. d lout. ge: 30V, Maxi		rrent: 10m/
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- Power supp CV/CC Mor	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s wily output monitor. Open co	10V, user sele I full scale, us I full scale, us I full scale, us electable. Accelectable. Accelecta	ctable. Accurrer selectable. er selectable. er selectable. er selectable. euracy: +/-0. euracy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%. t On: On. Outp node: Off. Max	ity: +/-0.4% I linearity: +/ I linearity: +/	of rated lout. 7-0.5% of rated 7-0.5% of rated Maximum Volta 1: 30V, Maxim	d Vout. d lout. ge: 30V, Maxi num Sink Curr		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 Power supp CV/CC Morn Enable/Disa	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s ally output monitor. Open coable analogue	10V, user sele I full scale, us I full s	ctable. Accurrer selectable. er selectable. er selectable. er selectable. euracy: +/-0. euracy: +/-0. Ellector. Outpuble: On. CV nor control by el	acy and linear Accuracy and Accuracy and 5%. 5%. t On: On. Outp node: Off. Max ectrical signal	ity: +/-0.4% I linearity: +/ I linearity: +/ out Off: Off. N kimum Voltag	of rated lout. /-0.5% of rated /-0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0-	d Vout. d lout. ge: 30V, Maxinum Sink Curr ~0.6V or sho	ent: 10mA.	OV or open
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1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- V/CC Mor Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum In	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s oly output monitor. Open coable analogue ogramming coable PS output able PS output irain programming ow level input	10V, user sele I full scale, us I full scale, us I full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable in the programming control monitors of the programming control mon	ctable. Accurrer selectable. er sele	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp	ity: +/-0.4% I linearity: +/, I linearity: +/, but Off: Off. N kimum Voltaga I or dry contate: On. Local: .6V or short, ote: 0-0.6V aximum sink ut voltage =	of rated lout. /-0.5% of rated	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0· 0~5V or 0· 0~5V or 0· Power suppp CV/CC Mor Enable/Diss Analogue pr Enable/Diss Enable/Diss Two open d Maximum In trigger: tw=	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s oly output monitor. Open coable analogue ogramming coable PS output able PS output irain programming ow level input =10us minimi	10V, user sele I full scale, us I full scale, us I full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming portrol monitors at by electrical the programming that it by electrical mable signals at voltage = 0.	ctable. Accurrer selectable. er sele	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal collector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp Min delay betv	ity: +/-0.4% I linearity: +/, I linearity: +/, but Off: Off. N kimum Voltaga I or dry contate: On. Local: .6V or short, ote: 0-0.6V aximum sink ut voltage =	of rated lout. /-0.5% of rated	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Diss Analogue pr Enable/Diss Enable/Diss Two open d Maximum Intigger: tw = By electrica	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s olly output monitor. Open coable analogue ogramming coable PS output able PS output irain programming own level input =10us minimut ul Voltage: 0-	10V, user sele In full scale, us In full scale In	ctable. Accur. er selectable. er sel	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal collector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp Min delay betv	ity: +/-0.4% I linearity: +/, I linearity: +/, but Off: Off. N kimum Voltaga I or dry contate: On. Local: .6V or short, ote: 0-0.6V aximum sink ut voltage =	of rated lout. /-0.5% of rated	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Diss Analogue pr Enable/Diss Enable/Diss Two open d Maximum Intigger: tw = By electrica	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s olly output monitor. Open coable analogue ogramming coable PS output able PS output irain programming own level input =10us minimut ul Voltage: 0-	10V, user sele In full scale, us In full scale In	ctable. Accur. er selectable. er sel	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal collector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp Min delay betv	ity: +/-0.4% I linearity: +/, I linearity: +/, but Off: Off. N kimum Voltaga I or dry contate: On. Local: .6V or short, ote: 0-0.6V aximum sink ut voltage =	of rated lout. /-0.5% of rated	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0. 0~5V or 0. Power suppp CV/CC Mor Enable/Diss Analogue pr Enable/Diss Two open d Maximum I trigger: tw= By electrica 4~5V=0K	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s olly output more intor. Open co- able analogue ogramming co- able PS output able PS output irain programming ow level input =10us minimut il Voltage: 0- i, 0V (500ohm	10V, user sele In full scale, us In full scale In	ctable. Accur. er selectable. er sel	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal collector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp Min delay betweet.	ty: +/-0.4% linearity: +/- linearity: +/- linearity: +/- but Off: Off. N kimum Voltag l or dry contate: On. Local: .6V or short, bte: 0-0.6V aximum sink ut voltage = veen 2 pulses	of rated lout. 7-0.5% of rated 7-0.5% of rated 1-0.5%	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 6. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V o	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm 10-7/10Kohm 10-7/10K	10V, user sele a full scale, us a full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming portrol monitors at by electrical the programming to the programming to the programming portrol monitors at by electrical mable signals at voltage = 0. um. Tr,Tf = 1u: -0.6V/2—30V in impedance)	ctable. Accur. er selectable. er sel	acy and linear Accuracy and Accuracy and Sow. 5%. 5%. t On: On. Outprode: Off. Max ectrical signal collector. Remo contact. 0~0 contact. Remoltage 25V, Mahigh level inp Min delay betweet.	ty: +/-0.4% linearity: +/- linearity: +/- linearity: +/- but Off: Off. N kimum Voltag l or dry contate: On. Local: .6V or short, bte: 0-0.6V aximum sink ut voltage = veen 2 pulses	of rated lout. 7-0.5% of rated 7-0.5% of rated 1-0.5%	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 6. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~6V o	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s -10V, user s olly output moi nitor. Open co able analogue ogramming co able PS outpu able PS outpu able PS outpu =1 Ous minim ow level inpui =1 Ous minim of Voltage: 0- 0, 0V (500ohn p to 4 identical wo identical u	10V, user sele In full scale, us In full scale In	ctable. Accur. er selectable. er selectable. er selectable. uracy: +/-0. uracy: +/-0. Illector. Outpu de: On. CV n control by el signal. Open c signal or dry signal or dry Maximum v Maximum v Maximum, or dry contac = Fail	acy and lineari Accuracy and Accuracy and 5%. 5%. t On: On. Outprode: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo litage 25V, Ma high level inp Min delay betw tt. de. Refer to in anual.	ity: +/-0.4% I linearity: +/ I	of rated lout. /-0.5% of rated /-0.5%	ge: 30V, Maxinum Sink Curr ~0.6V or shored Voltage: 30V, en. User selecti: 2~30V or ca.	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or oper Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V o	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s -10V, user s live output moi litor. Open co lable analogue ogramming cr lable PS output larin programm ow level input 1 Voltage: 0- 1, 0V (500ohm p to 4 identical user son be co	10V, user sele in full scale, us in full scale, us in full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable side of the programming ontrol monitor in the programming of the p	ctable. Accur. er selectable. er selectable. er selectable. uracy: +/-0. uracy: +/-0. Illector. Outpu dde: On. CV n control by el signal. Open c signal or dry signal or dry Maximum v Maximum v Maximum s Maximum s Maximum s S der/Slave mo instruction m aisy chain to	acy and lineari Accuracy and Accuracy and 5%. 5%. t On: On. Outplood: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo litage 25V, Ma high level inp Min delay betw tt. de. Refer to in anual. synchronize th	ty: +/-0.4% I linearity: +/- I linearity	of rated lout. /-0.5% of rated /-0.5%	d Vout. d lout. d lout. ge: 30V, Maxinum Sink Curr ~0.6V or sho Voltage: 30V, en. User selec I: 2~30V or c A (Shunted by Im high level	rent: 10mA. rt. Local: 2~3 Maximum Sink table logic. ppen. 27V zener) input = 5V po	OV or oper Current: 10
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1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS232/4 1. Vout programming accuracy (*15) 3. Vout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum li trigger: tw= By electrica 4~5V=0K Possible. U Possible. To Power supp Limits the o Enable/Disa Programma Programma Programma Programma Programma Programma Programma O.05% of ra 0.002% of 1 0.002% of 1 0.05% of ra	20—5V or 0—10—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—10V, user s 20—20—20—20—20—20—20—20—20—20—20—20—20—2	10V, user sele 1 full scale, us 1 full s	ctable. Accur. er selectable. er selectable. uracy: +/-0. uracy: +/-0. uracy: +/-0. llector. Outpu ode: On. CV n control by el signal. Open c signal or dry signal or dry Maximum v 8W.Minimum s Maximum, l or dry contac = Fail ster/Slave mo instruction m aisy chain to ted value. Pro range: 11 fall slew rate. loots or the fro ed in 4 memo	acy and lineari Accuracy and Accuracy and Accuracy and 5%. 5%. t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo litage 25V, Ma high level inp Min delay betv et. de. Refer to in anual. synchronize th gramming via 000mΩ. Prog Programming ont panel. ry cells. Activ	ty: +/-0.4% I linearity: +/, I linearity	of rated lout. /-0.5% of rated /-0.5%	d Vout. d lout. d lout	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. ppen. 27V zener) input = 5V po	60V or oper Courrent: 10 ositive edge
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Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming 4. lout resistor programming 4. lout resistor programming 6. Output voltage monitor 6. Output current monitor (*15) 5. Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS232/4 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lout readback accuracy (*15) 7. Vout readback accuracy (*15) 7. Vout readback resolution (of rated output voltage)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d Maximum li trigger: tw= By electrica 4~5V=0K Possible. U Possible. To Power supp Limits the o Enable/Disa Programma Programma Programma Programma Programma Programma Programma O.05% of ra 0.002% of 1 0.002% of 1 0.05% of ra	20—5V or 0—10—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—5/10Kohm 20—10V, user s 20—20—20—20—20—20—20—20—20—20—20—20—20—2	10V, user sele 1 full scale, us 1 full s	ctable. Accur. er selectable. er selectable. uracy: +/-0. uracy: +/-0. uracy: +/-0. llector. Outpu ode: On. CV n control by el signal. Open c signal or dry signal or dry Maximum v 8W.Minimum s Maximum, l or dry contac = Fail ster/Slave mo instruction m aisy chain to ted value. Pro range: 11 fall slew rate. loots or the fro ed in 4 memo	acy and lineari Accuracy and Accuracy and Accuracy and 5%. 5%. t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo litage 25V, Ma high level inp Min delay betv et. de. Refer to in anual. synchronize th gramming via 000mΩ. Prog Programming ont panel. ry cells. Activ	ty: +/-0.4% I linearity: +/, I linearity	of rated lout. /-0.5% of rated /-0.5%	d Vout. d lout. d lout	rent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. ppen. 27V zener) input = 5V po	00V or open Current: 10 ositive edge

Specifications GENESYS+™ G (3.4kW)

Output Rating	G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3. Rated output power	W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
Input voltage/freq. 3 phase, 3 wire + Ground (*4) Manipum least surgest at 1000/Llead.		3-Phase, 40 3-Phase, 40 1-Phase, 20	00V models: 3 80V models: 3 00V models:	342~460Vac 342~528Vac 170~265Vac	s, 47~63Hz (s, 47~63Hz (s, 47~63Hz (s, 47~63Hz (Covers 380/40 Covers 380/40 Covers 200/20	00/415Vac) 00/415/440/4 08/230/240V	ac)	Dhana 400V m	adalas C.F.A.G	2001/22
2. Maximum Input current at 100% load		1-Phase, 20	00V models: 2	21A @ 200V	ac	,			Phase, 480V m	00eis: 6.5A @	y 38UVac
3. Power Factor (Typ)								200Vac, rated		1	
4. Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5. Inrush current (*6)	A	Less than 5	1								
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.01% of ra	ited output vo	Itage							
2. Max. Load regulation (*8)		0.01% of ra	ted output vo	Itage +5mV							
3. Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	80	80	100	120	200	480
4. Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	10	12	15	15	15	20	60	100
5. Temperature coefficient	PPM/°C	50PPM/°C	from rated ou	tput voltage, i	following 30 r	ninutes warm-	·up.				
6. Temperature stability		0.01% of ra	ted Vout over	8hrs interval	following 30	minutes warm	-up. Constan	t line, load & t	temp.		
7. Warm-up drift		Less than 0	.05% of rated	l output voltag	je+2mV over	30 minutes fo	ollowing power	er on.			
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	100
10. Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11. Transient response time	mS	Time for ou	tput voltage t	o recover with	nin 0.5% of its	rated output	or a load cha	nge 10~90%	of rated output 00V. 2mS, for r	t current.	_
12. Start up delay	Sec	Less than 6	Sec								
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.05% of ra	ited output cu	irrent.							
2. Max. Load regulation (*13)			ited output cu								
3. Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4. Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5. Temperature coefficient	PPM/°C								inutes warm-u		1=0
6. Temperature stability								t line, load & t		ρ.	
7. Warm-up drift									ver 30 minutes	following now	or on
7. Wann-up unit Analogue Programming and Monitoring (Isolate			. LUSS IIIAII	/-0.2370, 130	V - 000 V. E03	3 tilali 1/-0.1	J/0 OI Talcu OI	atput current o	ver 50 minutes	ionowing pow	ICI UII.
MIIAIUYUE FIVYIAIIIIIIIIII AIIU MUIIIIUIIIII LISIIIAII		e oninnii									
) F\/ or 0 =	101/	stable Assur	ooy and linear	it / 0.1E0	V of roted Vau	+		
1. Vout voltage programming		0~100%, 0					•	% of rated Vou	t.		
Vout voltage programming lout voltage programming (*15)		0~100%, 0 0~100%, 0	0~5V or 0~1	10V, user sele	ectable. Accur	acy and linear	ity: +/-0.4%	of rated lout.			
Nout voltage programming Iout voltage programming (*15) Vout resistor programming		0~100%, 0 0~100%, 0 0~100%, 0	0~5V or 0~1 0~5/10Kohm	10V, user sele n full scale, us	ectable. Accur ser selectable.	acy and linear Accuracy and	ity: +/-0.4% I linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0)~5V or 0~1)~5/10Kohm)~5/10Kohm	10V, user sele n full scale, us n full scale, us	ectable. Accur ser selectable ser selectable	acy and linear Accuracy and Accuracy and	ity: +/-0.4% I linearity: +,	of rated lout.	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac	ectable. Accur ser selectable. ser selectable. curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac	ectable. Accur ser selectable ser selectable	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +,	of rated lout. /-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s	10V, user sele n full scale, us n full scale, us electable. Acc electable. Acc	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0.	Accuracy and Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +, I linearity: +,	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout. d lout.		
1. Voul voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s	10V, user sele n full scale, us n full scale, us electable. Acc electable. Acc	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0.	Accuracy and Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +, I linearity: +,	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout.	num Sink Cur	rent: 10mA
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0~ 0~5V or 0~	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s	10V, user sele n full scale, us n full scale, us relectable. Acc relectable. Acc nitor. Open co	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%.	ity: +/-0.4% I linearity: +, I linearity: +, out Off: Off. N	of rated lout. /-0.5% of rated /-0.5% of rated	d Vout. d lout.		rent: 10mA
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, (0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0-	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s sly output monitor. Open co	10V, user sele n full scale, us n full scale, us relectable. Acc relectable. Acc nitor. Open co ollector. CC m	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0. bllector. Outpu ode: On. CV r	acy and linear Accuracy and Accuracy and 55%. 5%. it On: On. Out	ity: +/-0.4% I linearity: +, I linearity: +, out Off: Off. N	of rated lout. /-0.5% of rated /-0.5% of rated flaximum Volta ie: 30V, Maxim	d Vout. d lout. ige: 30V, Maxir	ent: 10mA.	
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- Power supp CV/CC Mor Enable/Disa	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s ally output monitor. Open coable analogue	10V, user sele in full scale, us in full scale, us relectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelector. CC m	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0. billector. Output ode: On. CV r g control by e	acy and linear Accuracy and Accuracy and 5%. 5%. it On: On. Out node: Off. Ma: lectrical signa	ity: +/-0.4% I linearity: +, I linearity: +, out Off: Off. N kimum Voltag	of rated lout. /-0.5% of rated /-0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0-	d Vout. d lout. ige: 30V, Maxir num Sink Curre	ent: 10mA. i. Local: 2~30	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 Power supp CV/CC Mor Enable/Disa Analogue pr	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s vly output monitor. Open co able analogue ogramming co	10V, user sele n full scale, us n full scale, us n full scale, us nelectable. Acc nitor. Open co ollector. CC m e programming ontrol monitor	ectable. Accur ser selectable. Ser selectable. Curacy: +/-0. Curacy: +/-0. Dillector. Output ode: On. CV r g control by e signal. Open o	acy and linear Accuracy and Accuracy and 55%. 55%. It On: On. Out node: Off. Ma: lectrical signa ollector. Remo	ity: +/-0.4% I linearity: +, I linearity: +, out Off: Off. N kimum Voltag I or dry conta	of rated lout. /-0.5% of rated /-0.5% of rated /-0.5% of rated flaximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum	d Vout. d lout. ge: 30V, Maxir num Sink Curre ~0.6V or short	ent: 10mA. i. Local: 2~30 Maximum Sink	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- CV/CC Mor Enable/Disa Analogue pr Enable/Disa	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s olly output monitor. Open coable analogue ogramming coable PS output	10V, user sele in full scale, us in full scale, us in full scale, us ielectable. Accomitor. Open con initor. Open con illector. CC m is programming control monitor it by electrica	ectable. Accurser selectable. Ser selectable. Ser selectable. Curacy: +/-0. Curacy: +/-0. Curacy: +/-0. Curacy: -/-0. Curacy: -/	acy and linear Accuracy and Accuracy and 55%. 55%. It On: On. Out node: Off. Ma: lectrical signa ollector. Remo contact. 0~C	ity: +/-0.4% I linearity: +, I linearity: +, but Off: Off. N kimum Voltag I or dry conta	of rated lout. /-0.5% of rated /-0.5% of rated /-0.5% of rated Maximum Volta ie: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope	d Vout. d lout. ige: 30V, Maxir num Sink Curre ~0.6V or short Voltage: 30V, N	ent: 10mA. i. Local: 2~30 Naximum Sink able logic.	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- Enable/Disa Analogue pr Enable/Disa Enable/Disa Enable/Disa	0-5V or 0-1 0-5/10Kohm 0-5/10Kohm -10V, user s -10V, user s sly output monitor. Open coable analogue ogramming coable PS output able PS output	10V, user sele in full scale, us in full scale, us in full scale, us in full scale, us infectable. Accepted the selectable of the initor. Open co initor. Open co in programming introl monitor int by electrica it by electrica	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0. pllector. Outpu lode: On. CV r g control by e signal. Open of l signal or dry	acy and linear Accuracy and Accuracy and 5%. 5%. th On: On. Out, node: Off. Ma: lectrical signa ollector. Remo contact. 0~C contact. Remo	ity: +/-0.4% I linearity: +, I	of rated lout. /-0.5% of rated /-0.5% of rated /-0.5% of rated flaximum Volta le: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local	d Vout. d lout. ge: 30V, Maximum Sink Curre ~0.6V or short Voltage: 30V, N en. User select	ent: 10mA. i. Local: 2~30 Maximum Sink able logic. pen.	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, (0~100%, (0~100%, (0~100%, (0~5V or 0- 0~5V or 0- Enable/Disa Analogue pr Enable/Disa Enable/Disa Two open d	0~5V or 0~1 0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s sly output moi nitor. Open co able analogue ogramming co able PS output dialie PS output lirain programmin	10V, user sele in full scale, us in full scale, us in full scale, us in full scale, us infectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable in the programming introl monitor int by electrica int by electrica mable signals	ectable. Accur ser selectable. ser selectable. curacy: +/-0. curacy: +/-0. pllector. Outpu ode: On. CV r g control by e signal. Open of l signal or dry s Maximum v	acy and linear Accuracy and Accuracy and 5%. 5%. th On: On. Out, node: Off. Ma: lectrical signa ollector. Remo contact. 0~C contact. Remo	ity: +/-0.4% I linearity: +, I linearity: +, but Off: Off. N kimum Voltag I or dry contate: On. Local: 1.6V or short, ote: 0~0.6V aximum sink	of rated lout. /-0.5% of rated /-0.5% of rated /-0.5% of rated flaximum Volta le: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/	d Vout. d lout. ge: 30V, Maximum Sink Curre ~0.6V or short Voltage: 30V, N en. User select I: 2~30V or op A (Shunted by	ent: 10mA. i. Local: 2~30 Maximum Sink able logic. ben. 27V zener)	OV or open. Current: 10
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Specifications GENESYS+™ G (5kW)

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Section Proceedings Spreads Section	· · ·				_	_	_	_	_	_	_			_	_	
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A Biological (Phylic (17) (12) 25	2. Maximum Input current at 100% load		3-Phase,	400V mo	dels: 9.2A	√ 380Va	ac									
S. Heads Central (**P)	3. Power Factor (Typ)		0.94 @ 2	200/380V	/ac, rated o	output pow	er.									
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9. Up prog. Response time (*11) auf. **1) in S			_													
10. Doom-grags/passes before, Full bacd (**11) ms 50 50 80 80 80 80 80 90 100 100 100 100 100 100 400 400 400 300 301 11. Transient response time ms 5 Time for output voilage to recover within 0.5% of its nated output for a located charge 10—80% of Tabled output current. 10 20 80 80 80 80 80 80 8	8. Remote sense compensation/wire (*10)	٧			1			_			_	5	5	5	5	5
No lead (*12) ms 500 600 800 800 800 800 800 800 300 250 3000 4000 4000 3000 3000 11. Transient response time 75% of its act odupt of state of teach of the state of teach of teach of the state of teach of the state of teach of the state of teach of teach of teach of teach of the state of teach of	9. Up-prog. Response time (*11)	mS														
11. Transient response time	1 0 1				_			_	_		_	_			_	_
Constant Mode	. ,		Time for	output vo	Itage to re	cover withi	n 0.5% of	its rated	output for a	a load cha	nge 10~9	90% of rate	d output c	urrent.		3000
1. Max. Line regulation (*7)	12. Start up delay	Sec	Less than	n 5 Sec												
2. Also: Local regulation (*13)	Constant Current Mode	V					50	60	80	100	150	200	300	400	500	600
3. Rippole rms. (or ratest violage). MA si 200 s 600 s 300 s 150 s 150 s 150 s 20 s 30 s 20 s 30 s 30 s 300 s 20 s 30 s 3	• , ,															
4. Femperature coefficient PPM/°C to 100+100/- 100PM/°C, 150V-600V-70PM/°C from rated outquit current, following 30 minutes warm-up. 5. Nam-up drift	3. Ripple r.m.s. @ rated voltage.						≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5. Nam-up drift	. , ,	PPM/°C	10V~10	0V: 100PI	 PM/°C. 15	0V~600V	: 70PPM/	C from ra	ted output	current, fo	ollowina 3	0 minutes	warm-up.			
6. Wermup drift	<u> </u>															
1. Voul voltage programming (*15)	6. Warm-up drift		10V~10	0V: Less t	han +/-0.	25%, 150\	/~600V: L	ess than	+/-0.15%	of rated ou	utput curre	nt over 30	minutes fo	llowing po	wer on.	
2. lout voltage programming (*15)	Analogue Programming and Monitoring (Iso	lated from	n the Out	put)												
3. Votul resistor programming (*15)	Vout voltage programming		0~100%	5, 0~5V (or 0~10V,	user sele	ctable. Acc	curacy an	d linearity:	+/-0.159	% of rated	Vout.				
4. lout resistor programming (*15) 0500 k, 05/10k chm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout. 5. Output current monitor (*15) 050 v or 010V, user selectable. Accuracy: +/-0.5% of rated Vout. 6. Output current monitor (*15) 050 v or 010V, user selectable. Accuracy: +/-0.5% of rated lout. 7. Power supply Otk #1 signal CV/CC Monitor. Open collector. CC mode: On. Ov mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 8. LOCAL/REMOTE Analogue control Enable/Disable analogue programming control by electrical signal or dry contact. Remote: 0 0.0 V or short. Local: 230V or open. 4. LOCAL/REMOTE Analogue signal Enable/Disable PS output by electrical signal or dry contact. Remote: 0 0.6 V or short. Local: 230V or open. 4. LOCAL/REMOTE Analogue signal Enable/Disable PS output by electrical signal or dry contact. Pemote: 0 0.6 V or short. Local: 230V or open. 6. INTERLOCK (ILC) control Enable/Disable PS output by electrical signal or dry contact. Remote: 0 0.6 V or short. Local: 230V or open. 7. Programmed signals Two open drain programmable signals. Maximum voltage: 25V, Maximum sink current 10mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Two open drain programmable signals. Maximum voltage: 2.5V, Maximum high level input = 5V positive edge trigge to 1.0 ALSY OUT/PS OK #2 signal 4 5V=0 K, OV (5000hm impedance) = Fail Functions and Features 1. Parallel operation Possible. Up to twelve (12) identical units. Refer to instruction manual. For more power please consult with Factory 2. Series operation Possible. Two identical units. Refer to instruction manual. 9. Costant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 9. Costant power control Possible. Two identical units. Refer to instruction manual. 9. Costant power control Possible. Two identical units. Refer to instruction m																
5. Output voltage monitor (*15)	1 0 0								,							
6. Output current monitor (*15)											/-U.5% 0T I	rated lout.				
Signals and Controls (Isolated from the Output)							•									
1. Power supply OK #1 signal			034 01	U10V,	U301 30100	nabic. Acc	ulacy. 17	-0.0 /0 01	alcu lout.							
2. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analogue control	` ' '		Power su	atuo vlaa	ut monitor	r. Open co	llector. Ou	tput On: (n. Output	Off: Off. N	laximum V	/oltage: 30	V. Maximu	ım Sink Cı	ırrent: 10ı	mA.
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. Enable/Disable PS output by electrical signal or dry contact. 0—0.6 V or short, 2—30V or open. User selectable logic. 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 11. Parallel operation 12. Series operation 13. Jaisy chain 14. Constant power control 15. Output resistance and Readures 17. Arbitrary waveforms 17. Output programming accuracy (*16) 17. Output regramming accuracy (*16) 17. Out readback accuracy (*15) 17. Out readback accuracy (*15) 17. Out readback accuracy (*15) 17. Output resistance and read untition and read untition and read untition of the read and output voltage 18. Triangle output voltage = 0.8V. Minimum high level input voltage = 2.5V. Maximum high level input = 5V positive edge trigge trigge trigge tw=10us minimum. Tr, TI=1 us Maximum, Min delay between 2 pulses 1ms. 19. Parallel operation 20. A-5V=0K, DV (5000hm impedance)=Fail 21. Parallel operation 22. Series operation 23. Daisy chain 24. Constant power control 25. Output resistance control 26. Silve rate control 27. Arbitrary waveforms 27. Arbitrary waveforms 28. Programming via the communication ports or the front panel. 29. Programming and Readback (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 29. Output current 20. Output output via and Output tall slew rate. Programming range: 0.0001 ~ 999.99V/mS or A/mS. Programming accuracy (*16) 29. Outprogramming resolution 20. Output output voltage 20. Output output voltage 21. Outprogramming resolution 20. Output output current 20. Output current 20. Output output voltage 20. Output output voltage 20. Output output voltage 21. Outprogramming resolution output voltage 22. Output output voltage 23. Output output v	2. CV/CC signal															
5. ENABLE/DISABLE signal	3. LOCAL/REMOTE Analogue control		Enable/D	isable and	alogue pro	gramming	control by	y electrica	l signal or	dry conta	ct. Remote	e: 0~0.6V	or short. I	_ocal: 2~3	30V or op	en.
6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO (b# 2 signal 9.	4. LOCAL/REMOTE Analogue signal		-		-										k Current:	10mA.
7. Programmed signals	•															
8. TRIGGER IN / TRIGGER OUT signals	6. INTERLOCK (ILC) control							-								
Iw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.	• •														.,.	
9. DAISY_IN/SO control signal By electrical Voltage: 0 — 0.6V/2 — 30V or dry contact. 10. DAISY_OUT/PS_0K #2 signal 4—5V=OK, 0V (500ohm impedance) = Fail Functions and Features 1. Parallel operation Possible. Up to twelve (12) identical units in Master/Slave mode. Refer to instruction manual. For more power please consult with Factory 2. Series operation Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1 ~ 1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Vout programming accuracy (*16) 0.002% of rated output voltage 4. lout programming resolution 0.002% of rated output current 5. Vout readback accuracy (*15) 0.05% of rated output current 6. Slew rate control 0.005% of rated output current 7. Vout readback accuracy (*15) 0.2% of rated output current 8. Output voltage 0.005% of rated output current 9. Output voltage	8. TRIGGER IN / TRIGGER OUT signals		Maximun tw=1014	n Iow leve s minimur	er input vol m. Tr.Tf=1	tage = 0.1 Ius Maxim	ชV,Minimเ um, Min ก	ım nigh le lelav hetw	evel input v een 2 nuls	oltage =	2.5V, Max	kımum hig	n level inp	ut = 5V p	ositive ed	ge trigge
10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, OV (500ohm impedance)=Fail Functions and Features 1. Parallel operation Possible. Up to twelve (12) identical units in Master/Slave mode. Refer to instruction manual. For more power please consult with Factory 2. Series operation Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99V/mS or A/mS. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. Programming and Readback (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 0.05% of rated output voltage 2. lout programming resolution 0.002% of rated output current 5. Vout readback accuracy (*15) 0.05% of rated output voltage 6. lout readback accuracy (*15) 0.2% of rated output voltage 6. lout readback accuracy (*15) 0.2% of rated output current 7. Vout readback accuracy (*15) 0.2% of rated output current 8. Vout readback accuracy (*15) 0.2% of rated output current 9. Vout readback accuracy (*15) 0.2% of rated output current 9. Vout readback accuracy (*15) 0.2% of rated output current	9. DAISY IN/SO control signal								20 2 puld	. 55 11110.						
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3. Daisy chain	1. Parallel operation		Possible.	Up to tw	elve (12) i	dentical ur	nits in Mas	ster/Slave	mode. Ref	fer to instr	uction ma	nual. For n	nore powe	r please co	nsult with	n Factory
4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control 7. Arbitrary waveforms 7. Arbitrary waveforms 7. Vout readback accuracy 7. Outprogramming resolution 7. Outprogramming resolution 7. Outprogramming resolution 7. Outprogramming resolution 8. Output rise and output fall slew rate. Programming range: 0.0001~999.99V/mS or A/mS. Programming via the communication ports or the front panel. 8. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 8. Programming and Readback (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 9. Outprogramming accuracy (*16) 9. Outprogramming accuracy (*15) 9. Outprogramming resolution (of rated output voltage) 9. Outprogramming resolution (of r	2. Series operation		Possible.	Two ider	ntical units	. Refer to i	nstruction	manual.								
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Programming and Readback (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces	7 Arhitrary waveforms		-							nn hy com	mand via t	the commi	inication n	norts or by	the front	nanel
1. Vout programming accuracy (*16) 0.05% of rated output voltage 2. lout programming accuracy (*15) 0.1% of actual output current +0.2% of rated output current 3. Vout programming resolution 0.002% of rated output voltage 4. lout programming resolution 0.05% of rated output current 5. Vout readback accuracy 0.05% of rated output voltage 6. lout readback accuracy (*15) 0.2% of rated output current 7. Vout readback resolution (of rated output voltage) 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.00	·						,a iii 4 iil6	mory cell	o. monvant	in by colli	munu via i	ano odminim	ωποαιιστή μ	orto or by	ano mont	pariol.
2. lout programming accuracy (*15) 0.1% of actual output current + 0.2% of rated output current 3. Vout programming resolution 0.002% of rated output voltage 4. lout programming resolution 0.05% of rated output voltage 5. Vout readback accuracy (*15) 0.2% of rated output voltage 6. lout readback accuracy (*15) 0.2% of rated output current 7. Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.00																
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	· · · · · · · · · · · · · · · · · · ·															
	5. Vout readback accuracy		0.05% o 0.2% of r	f rated ou ated outp	tput voltag ut current	je										

Specifications GENESYS+™ G (2.7/3.4/5kW)

Protective Functions	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection								or Power Lin						on.	
2. Over-voltage protection (OVP)		Output sh	ut-down.	Reset by A	AC input red	cycle in auto	start mode	e, by OUTPUT	Γ button, by	rear panel o	r by comm	unication.			
3. Over-voltage programming range	٧	0.5~12	1~24	2~36	2~44.1	5~55.125	5~66.1	5 5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.
4. Over-voltage programming accuracy		+/-1% 0	f rated out	put voltag	е										
5. Output under voltage limit (UVL)		Prevents	from adjus	sting Vout	below limit	t. Does not a	apply in an	alogue progr	amming. Pro	eset by front	panel or c	ommunicati	on port.		
6. Over temperature protection		Shuts dov	wn the out	put. Auto	recovery by	autostart m	ode.								
7. Output under voltage limit (UVL)		Prevents	adjustmen	it of Vout I	pelow limit.										
8. Output under voltage protection (UVP)								uring under of by OUTPUT			by commu	nication.			
Front Panel															
1. Control functions		Vout/lout, OVP/UVL, Protection Commun Output Of Commun Analogue	ication Fu V/OFF. Fro ication Fu Control F	nit manua ual adjust is - OVP, l nctions - S ont Panel l nctions - S unctions -	JVL,UVP, F Selection of Lock. Selection of Selection	f Baud Rate, Voltage/resi	RS-232,RS Address, I stive progr	C -485,USB or P and comm amming, 5V,	unication la /10V, 5K/10	nguage.					
2. Display		Vout: 4 di	igits, accu	racy: 0.05	% of rated	output volta	ge +/-1 c	ount.							
3. Front Panel Buttons Indications								OTECTION, CO	NFIGURATI	ON, SYSTEN	л, SEQUEN	ICER.			
4. Front Panel Display Indications								Current, Ad Trigger, Load			ifetstart, Fo	ldback V/I,			
Environmental Conditions									-					-	
Operating temperature		0~50°C,	100% loa	ıd.											
2. Storage temperature		-30~85°	C												
3. Operating humidity	%	20~90%	RH (no c	ondensatio	on).										
4. Storage humidity	%	10~95%	RH (no c	ondensatio	on).										
5. Altitude (*17)		Operating	: 10000ft	(3000m),	output curre	ent derating 2	2%/100m (or Ta derating	1°C/100m	above 2000r	n. Non ope	rating: 4000	Oft (12000	m).	
Mechanical															
1. Cooling		Forced ai	r cooling l	oy internal	fans. Air fl	ow direction	: from Fro	nt panel to p	ower supply	rear					
2. Weight	kg	2.7kW/3.	4kW: Less	than 6.25	skg 5kW:	Less than 7.	.5kg								
3. Dimensions (WxHxD)	mm					sbars and buusbars and l		er), over) (Refer to	o Outline dra	wing).					
4. Vibration		MIL-8100	G, method	514.6, Pr	ocedure I, t	est conditio	n Annex C	- 2.1.3.1							
5. Shock		Less than	20G, half	sine, 11n	nS. Unit is i	unpacked.									
Safety/EMC															
1. Applicable standards: Safety		UL61010	-1, CSA22	2.2 No.61	010-1, IEC6	61010-1, EN	161010-1								
1.1 Interface classification								e) & J9 (com 1, J2, J3, J4,					Non Hazarı	dous.	
1.2 Withstand voltage		60V≤Vou Output & Output & 100V <v Output &</v 	t≤100V M J8 (sense J8 (sense out≤600V J8 (sense	odels: Inp) - J1, J2,) - Ground Models: I) - J1, J2,	out — Outpui , J3, J4, J5, d: 1500Vdc nput — Outp , J3, J4, J5,	t & J8 (sens , J6, J7 & J9 1min, Input out & J8 (se , J6, J7 & J9	e), J1, J2, 9 (commur t - Ground: nse), J1, J 9 (commur	, J5, J6, J7 8 J3, J4, J5, J nication optic 2835Vdc 1r 2, J3, J4, J5 nication optic 2835Vdc 1r	6, J7 & J9 (ons): 850Vdd nin. , J6, J7 and ons): 1275Vd	communica c 1min. J9 (commu	tion option	s): 4242Vdc	1min,	ound: 2835V	dc 1min.
1.3 Insulation resistance		100Mohn	n at 25°C,	70%RH.	Output to G	round 500V	dc								
2. Conducted emission		IEC/EN61	204-3 Ind	lustrial en	vironment,	Annex H tab	le H.1 , FC	C Part 15-A,	VCCI-A.						
3. Radiated emission		IEC/EN61	204-3 Ind	lustrial en	vironment,	Annex H tab	le H.3 and	H4, FCC Pa	rt 15-A, VC0	CI-A					
4. EMC compliance EMC(*18)		According	g to IEC/EI	N61204-3	Industrial	environment									

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C. NOTES:

- * 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
- * 2: Minimum current is guaranteed to maximum 0.2% of rated output current

 * 3: G5kW: Derate 5A/1°C above 40°C G3.4kW: Derate 5A/1°C above 40°C
- 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

- * 6: Not including EMI filter inrush current, less than 0.2mS.

 * 7: 3-Phase 200V models: 170—265Vac, 3-Phase 400V models: 342—460Vac, 3-Phase 480V models: 342—528Vac. Constant load.
- * 8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- * 9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.
- * 10: The maximum voltage on the power supply terminals must not exceed the rated voltage
- * 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- * 12: From 90% to 10% of Rated Output Voltage.
- * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
- * 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz.

Sie haben Fragen oder wünschen eine Beratung? Angebotsanfrage unter 07121 / 51 50 50 oder über info@datatec.de

- * 15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- * 16: Measured at the sensing point.
- * 17: For 10V model Ta derating 2°C/100m.
- * 18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 3m. * 19: Max. ambient temperature for using IEEE is 40°C.
- * 20: For 10V model only: Max. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.
- * 21: For 10V model only: For 3-Phase 200V efficiency is 88.5%
- * 22: Typ. at Ta=25°C, rated output power.

Specifications GENESYS+™ GSP (10kW)

Output Rating	GSP	10-1000			40-250			80-130		150-68					
1. Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2. Rated output current (*2)	A	1000(*3)		340	250	200	170	130	100	68	50	34	26	20	17
3. Rated output power	kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
Input Characteristics	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase,	400V mo	dels: 342~	-460Vac,	47~63Hz 47~63Hz 47~63Hz	(Covers 3	880/400/4	15Vac)	60/480Va	c)				
2. Maximum Input current at 100% load		3-Phase,	200V mo	dels: 35A	@ 200Va	c 3-Phase	e, 400V m	odels: 18.	4A @ 38	OVac 3-F	hase, 480	V models	: 18.4A @	380Vac	
3. Power Factor (Typ)				ac, rated o											
4. Efficiency (Typ) (*5) (*22)	%	89(*21)		91	91	91	91	91	91	91	91	92	92	91	92
5. Inrush current (*6)	A	Less than				10.				10.	10.	102	102	10.	02
6. AC line phase imbalance	%	< 5%	100/1												
	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Constant Voltage Mode	-	_				30	OU	00	100	100	200	300	400	500	000
1. Max. Line regulation (*7)				out voltage											
2. Max. Load regulation (*8)				out voltage		1				1	1	1	1		1
3. Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4. Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5. Temperature coefficient	PPM/°C	50PPM/°	C from rat	ed output v	voltage, fo	llowing 30	minutes	warm-up.							
6. Temperature stability		0.01% of	rated Vou	t over 8hrs	interval f	ollowing 3	0 minutes	warm-up.	Constant	line, load	& temp.				
7. Warm-up drift		Less than	0.05% of	rated outp	ut voltage	+2mV ov	er 30 min	utes follow	ring power	on.					
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10. Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11. Transient response time	mS			1		n 0.5% of i								,000	0000
The manorone response time	1110					se. Less th								e 100V.	
12. Start up delay	Sec	Less than		,					, u./o		,	.,			
Constant Current Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)		_		out current		- 00	00	00	100	100	200	000	700	000	000
2. Max. Load regulation (*13)				out current											
• ' '				1		200	150	100	70	4E	AE.	1.5	15	10	10
3. Ripple r.m.s. @ 10% rated voltage (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4. Ripple r.m.s. @ 100% rated voltage (TA25°C) (*14)		1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5. Temperature coefficient	PPM/°C					: 70PPM/°									
6. Temperature stability						ollowing 3									
7. Warm-up drift		10V~100	OV: Less th	nan +/-0.2	25%, 150V	′~600V: Le	ess than +	-/-0.15% c	of rated ou	tput currer	nt over 30	minutes fo	llowing po	wer on.	
Analogue Programming and Monitoring (Iso	lated fro	m the Out	put)												
Vout voltage programming		0~100%	, 0~5V o	r 0~10V,	user seled	table. Acc	uracy and	linearity:	+/-0.15%	of rated \	/out.				
2. lout voltage programming (*15)		0~100%	, 0~5V o	r 0~10V,	user seled	table. Acc	uracy and	linearity:	+/-0.4%	of rated lo	ut.				
3. Vout resistor programming				Kohm full											
, , , ,			, . 0		Scale, usi	er selectan	e. Accura	cy and line	earity: +/-	U.5% 01 1	alcu vuul.				
4. Jout resistor programming (*15)		∣ ()~1∩∩%	. 0~5/10	Kohm full											
Iout resistor programming (*15) Output voltage monitor					scale, use	er selectab	e. Accura	cy and line							
5. Output voltage monitor		0~5V or	0~10V, ι	user select	scale, use able. Acc	er selectab uracy: +/-	e. Accura 0.5% of ra	cy and line ited Vout.							
5. Output voltage monitor 6. Output current monitor (*15)		0~5V or	0~10V, ι	user select	scale, use able. Acc	er selectab	e. Accura 0.5% of ra	cy and line ited Vout.							
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp	 put)	0~5V or 0~5V or	0~10V, ι 0~10V, ι	user select user select	scale, use able. Acc able. Acc	er selectabl uracy: +/- uracy: +/-	e. Accura 0.5% of ra 0.5% of ra	cy and line ited Vout. ited lout.	earity: +/-	0.5% of ra	ated lout.	V Movies	ım Çink O	urront. 10-	mΛ
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal	 put)	0~5V or 0~5V or Power su	$0\sim10V$, $0\sim10V$, $0\sim10V$	user select user select ut monitor.	scale, use able. Acc able. Acc Open col	er selectabl uracy: +/- uracy: +/- lector. Out	e. Accura 0.5% of ra 0.5% of ra put On: O	cy and line ited Vout. ited lout.	earity: +/-	0.5% of ra	ated lout.			urrent: 10r	mA.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal	 put)	0~5V or 0~5V or Power su CV/CC M	0~10V, u 0~10V, u pply outpu onitor. Op	user select user select ut monitor. en collect	scale, use able. Acc able. Acc Open col or. CC mc	er selectab uracy: +/- uracy: +/- lector. Out ide: On. CV	e. Accura 0.5% of ra 0.5% of ra put On: On mode: O	cy and line ated Vout. ated lout. n. Output C	earity: +/- Off: Off. Main Market Workship Mr. Voltage	0.5% of ra aximum Vo	ated lout. oltage: 30' iximum Si	nk Current	t: 10mA.		
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control	 put) 	0~5V or 0~5V or Power su CV/CC M	0~10V, u 0~10V, u pply outpu onitor. Op	user select user select ut monitor. en collect logue prog	scale, use able. Acc able. Acc Open col or. CC mo gramming	er selectabluracy: +/- uracy: +/- lector. Out ide: On. CV	e. Accura 0.5% of ra 0.5% of ra put On: On mode: Onelectrical	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or	earity: +/- Off: Off. Ma m Voltage dry contact	aximum Vo 30V, Ma t. Remote	oltage: 30° aximum Si :: 0~0.6V	nk Current or short. I	t: 10mA. Local: 2~	30V or op	en.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal	 put)	0~5V or 0~5V or 0~5V or Power su CV/CC M Enable/Di Analogue	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm	user select user select ut monitor. en collect logue prog ing control	scale, use able. Acc able. Acc Open col or. CC mo gramming monitor s	er selectabluracy: +/- uracy: +/- lector. Out ide: On. CV control by ignal. Oper	e. Accura 0.5% of ra 0.5% of ra put On: Or mode: Or electrical	n. Output C	earity: +/- Off: Off. Ma m Voltage dry contact On. Local: (aximum Vo 30V, Ma t. Remote	oltage: 30' eximum Si o: 0~0.6V um Voltage	nk Current or short. I e: 30V, Ma	t: 10mA. Local: 2~ ximum Sin	30V or op	en.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control	 put) 	0~5V or 0~5V or 0~5V or Power su CV/CC M Enable/Di Analogue	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm	user select user select ut monitor. en collect logue prog ing control	scale, use able. Acc able. Acc Open col or. CC mo gramming monitor s	er selectabluracy: +/- uracy: +/- lector. Out ide: On. CV	e. Accura 0.5% of ra 0.5% of ra put On: Or mode: Or electrical	n. Output C	earity: +/- Off: Off. Ma m Voltage dry contact On. Local: (aximum Vo 30V, Ma t. Remote	oltage: 30' eximum Si o: 0~0.6V um Voltage	nk Current or short. I e: 30V, Ma	t: 10mA. Local: 2~ ximum Sin	30V or op	en.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal	 put) 	0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS	user select user select ut monitor. en collect logue prog ning control output by	scale, use able. Acc able. Acc Open col or. CC mo gramming monitor s	er selectabluracy: +/- uracy: +/- lector. Out ide: On. CV control by ignal. Oper	e. Accura 0.5% of ra 0.5% of ra put On: Or mode: O electrical collector. ry contact	ted Vout. ted lout. n. Output Cff. Maximu signal or o Remote: C 0~0.6V	earity: +/- Off: Off. Ma m Voltage dry contact on. Local: (or short, 2	aximum Vo :: 30V, Ma t. Remote !~30V or	oltage: 30' eximum Si :: 0~0.6V um Voltage open. Use	nk Current or short. I e: 30V, Ma er selectab	t: 10mA. Local: 2~ ximum Sin ble logic.	30V or op	en.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal	put)	0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D Enable/D	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS	user select user select ut monitor. en collect logue prog ning control output by output by	scale, use able. Acc able. Acc Open col or. CC mo gramming monitor s electrical	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV control by ignal. Oper signal or d	e. Accura 0.5% of ra 0.5% of ra put On: Or mode: Or electrical collector. ry contact ry contact	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or o Remote: C 0~0.6V . Remote:	earity: +/- Off: Off. Ma m Voltage m Voltage on. Local: (or short, 2 0~0.6V c	aximum Vo :: 30V, Ma t. Remote Off. Maximum 2~30V or or short. Lo	ated lout. oltage: 30' iximum Si :: 0~0.6V um Voltage open. Use ocal: 2~3	nk Current or short. I e: 30V, Ma er selectab 0V or ope	t: 10mA. Local: 2~ ximum Sin ble logic. n.	30V or op	en.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	put)	0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D Two open	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS	user select user select ut monitor. en collect logue prog ing control output by output by grammabl	scale, use able. Acc able. Acc Open col or. CC mo gramming monitor s electrical electrical e signals.	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV control by ignal. Oper signal or d	e. Accura 0.5% of ra 0.5% of ra put On: Or mode: O electrical collector. ry contact ry contact voltage 2	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: C . 0~0.6V . Remote: 5V, Maximu	earity: +/- Off: Off. Ma m Voltage dry contact On. Local: 0 or short, 2 0~0.6V coum sink coums in the country short of the country sho	aximum Vi :: 30V, Ma t. Remote Off. Maximur 2~30V or or short. Lo	oltage: 30' iximum Si :: 0~0.6V ium Voltage open. Use ocal: 2~3 DmA (Shui	or short. I e: 30V, Ma er selectab OV or ope nted by 27	t: 10mA. Local: 2~ ximum Sin ole logic. n. 7V zener)	30V or op k Current:	en. 10mA.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	put)	0~5V or 0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D Two open Maximum	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS i drain pro	user select user select ut monitor. een collect- logue prog ing control output by output by grammabl	scale, use able. Acc able. Acc open color. CC morror monitors electrical electrical e signals. age = 0.4	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV control by ignal. Oper signal or d signal or d Maximum	e. Accura 0.5% of ra 0.5% of ra 0.5% of ra put On: Or mode: Or electrical collector ry contact ry contact voltage 2 m high le	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or r Remote: C 0~0.6V Remote: 5V, Maxim vel input vo	earity: +/- Off: Off. Ma m Voltage dry contac or short, 2 0~0.6V c uum sink c oltage = 2	aximum Vi :: 30V, Ma t. Remote Off. Maximur 2~30V or or short. Lo	oltage: 30' iximum Si :: 0~0.6V ium Voltage open. Use ocal: 2~3 DmA (Shui	or short. I e: 30V, Ma er selectab OV or ope nted by 27	t: 10mA. Local: 2~ ximum Sin ole logic. n. 7V zener)	30V or op k Current:	en. 10mA.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	put)	0~5V or 0~5V o	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS idrain pro il tow level	user select user select ut monitor. en collect logue prog ning control output by grammabl i input volt n. Tr,Tf=1	scale, use able. Acc able. Acc open color. CC moreof monitor selectrical electrical e signals. age = 0.4 us Maxim	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV control by ignal. Oper signal or d signal or d Maximum BV,Minimu	e. Accura 0.5% of ra 0.5% of ra 0.5% of ra put On: Or mode: Or electrical a collector ry contact ry contact voltage 2 m high le-	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or r Remote: C 0~0.6V Remote: 5V, Maxim vel input vo	earity: +/- Off: Off. Ma m Voltage dry contac or short, 2 0~0.6V c uum sink c oltage = 2	aximum Vi :: 30V, Ma t. Remote Off. Maximur 2~30V or or short. Lo	oltage: 30' iximum Si :: 0~0.6V ium Voltage open. Use ocal: 2~3 DmA (Shui	or short. I e: 30V, Ma er selectab OV or ope nted by 27	t: 10mA. Local: 2~ ximum Sin ole logic. n. 7V zener)	30V or op k Current:	en. 10mA.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	put)	0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D Two open Maximum tw=10us By electri	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS drain pro low level minimum cal Voltage	user select user select ut monitor. en collect logue prog ning control output by grammabl i input volt n. Tr,Tf=1	scale, use able. Acc able. Acc open color. CC magramming monitor selectrical electrical e signals. age = 0.4 us Maxim	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV. control by ignal. Oper signal or d Maximum BV,Minimu um, Min do or dry control	e. Accura 0.5% of ra 0.5% of ra 0.5% of ra put On: Or mode: Or electrical a collector ry contact ry contact voltage 2 m high le-	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or r Remote: C 0~0.6V Remote: 5V, Maxim vel input vo	earity: +/- Off: Off. Ma m Voltage dry contac or short, 2 0~0.6V c uum sink c oltage = 2	aximum Vi :: 30V, Ma t. Remote Off. Maximur 2~30V or or short. Lo	oltage: 30' iximum Si :: 0~0.6V ium Voltage open. Use ocal: 2~3 DmA (Shui	or short. I e: 30V, Ma er selectab OV or ope nted by 27	t: 10mA. Local: 2~ ximum Sin ole logic. n. 7V zener)	30V or op k Current:	en. 10mA.
5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	put)	0~5V or 0~5V or Power su CV/CC M Enable/D Analogue Enable/D Two open Maximum tw=10us By electri	0~10V, u 0~10V, u pply outpu onitor. Op isable ana programm isable PS isable PS drain pro low level minimum cal Voltage	user select user select ut monitor. een collect logue prog ing control output by grammabl i input volt n. Tr,Tf=1 e: 0~0.6\	scale, use able. Acc able. Acc open color. CC magramming monitor selectrical electrical e signals. age = 0.4 us Maxim	er selectab uracy: +/- uracy: +/- lector. Out de: On. CV. control by ignal. Oper signal or d Maximum BV,Minimu um, Min do or dry control	e. Accura 0.5% of ra 0.5% of ra 0.5% of ra put On: Or mode: Or electrical a collector ry contact ry contact voltage 2 m high le-	cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or r Remote: C 0~0.6V Remote: 5V, Maxim vel input vo	earity: +/- Off: Off. Ma m Voltage dry contac or short, 2 0~0.6V c uum sink c oltage = 2	aximum Vi :: 30V, Ma t. Remote Off. Maximur 2~30V or or short. Lo	oltage: 30' iximum Si :: 0~0.6V ium Voltage open. Use ocal: 2~3 DmA (Shui	or short. I or short. I e: 30V, Ma er selectab OV or ope nted by 27	t: 10mA. Local: 2~ ximum Sin ole logic. n. 7V zener)	30V or op k Current:	en. 10mA.
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Specifications GENESYS+™ GSP (15kW)

Output Rating	GSP	10-1500			40-375			80-195			200-75				
1. Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2. Rated output current (*2)	Α	1500(*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3. Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
Input Characteristics	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
 Input voltage/freq. 3 phase, 3 wire + Ground (*4) 		3-Phase,	400V mod	dels: 342~	-460Vac,	47~63Hz 47~63Hz 47~63Hz	(Covers 3	880/400/4	15Vac)	60/480Va	c)				
2. Maximum Input current at 100% load		3-Phase,	200V mod	dels: 52.5A	₁ @ 200\	/ac 3-Pha	se, 400V	models: 2	7.6A @ 3	80Vac 3	-Phase, 4	80V mode	ls: 27.6A	@ 380Va	0
3. Power Factor (Typ)		0.94 @ 2	200/380Va	ac, rated or	utput pow	er.									
4. Efficiency (Typ) (*5) (*22)	%	89(*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5. Inrush current (*6)	Α	Less than				1	-		-	-	1 -	1	1	1	
6. AC line phase imbalance	%	< 5%	.00/.												
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)		-		out voltage		30	00	00	100	130	200	300	400	300	000
* ' /															
2. Max. Load regulation (*8)				out voltage		75	75	00	00	100	000	000	400	450	400
3. Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4. Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5. Temperature coefficient	PPM/°C					ollowing 30									
6. Temperature stability		0.01% of	rated Vou	t over 8hrs	interval f	ollowing 3	0 minutes	warm-up.	Constant	line, load	& temp.				
7. Warm-up drift		Less than	0.05% of	rated outp	ut voltage	+2mV ov	er 30 mini	utes follow	ing power	r on.					
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10. Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11. Transient response time	mS					n 0.5% of i									, 2300
						ise. Less th								e 100V.	
12. Start up delay	Sec	Less than		,											
Constant Current Mode	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)				out current.							,				1230
2. Max. Load regulation (*13)				out current.											
3. Ripple r.m.s. @ 10% rated voltage (*14)	mA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
.,	IIIA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
4. Ripple r.m.s. @ 100% rated voltage (TA25°C) (*14)	DDMAGO												1.5	0	0
5. Temperature coefficient	PPM/°C					: 70PPM/°(
6. Temperature stability						ollowing 30									
7. Warm-up drift				ian +/-0.2	5%, 150V	/~600V: L€	ess than +	-/-0.15% c	of rated ou	tput currer	nt over 30	minutes to	llowing po	wer on.	
Analogue Programming and Monitoring (Iso	lated fro	m the Out	put)												
Vout voltage programming		0~100%	, 0∼5V o	r 0∼10V,	user selec	ctable. Acc	uracy and	linearity:	+/-0.15%	of rated \	/out.				
2. lout voltage programming (*15)		0~100%	, 0~5V o	r 0~10V,	user selec	ctable. Acc	uracy and	linearity:	+/-0.4%	of rated lo	ut.				
3. Vout resistor programming		0~100%	, 0~5/10	Kohm full	scale, use	er selectabl	e. Accura	cy and line	earity: +/-	-0.5% of r	ated Vout.				
4. lout resistor programming (*15)		0~100%	0~5/10	Kohm full	scale, use	er selectabl	e. Accura	cy and line	earity: +/-	-0.5% of r	ated lout.				
5. Output voltage monitor (*23)						uracy: +/-									
6. Output current monitor (*15) (*23)						uracy: +/-									
Signals and Controls (Isolated from the Out)	nut)		, .												
Power supply OK #1 signal		Power sui	nnly outni	ıt monitor	Onen col	lector. Out	nut On: Or	n Outnut O)ff- ∩ff M:	avimum V	oltane: 30	V Mavimi	ım Sink Cı	urrent: 10r	nΔ
					•	iector. Out				axiiiiuiii v			IIII SIIIK UI	ullelli. Tül	IIA.
2. CV/CC signal						nda. On Ol				· 3U/\ \\		nk Curront	· 10m4		
3. LOCAL/REMOTE Analogue control			savie ana			de: On. CV	mode: 0	ff. Maximu	m Voltage					201/ 25 -:	nn.
4. LOCAL/REMOTE Analogue signal					gramming	control by	mode: 0 ⁻ electrical	ff. Maximu signal or	m Voltage dry contac	t. Remote	: 0~0.6V	or short. I	_ocal: 2~		
		-		ing control	ramming monitor s	control by signal. Oper	mode: 0 electrical collector.	ff. Maximu signal or (Remote: C	m Voltage dry contac In. Local: (t. Remote Off. Maxim	: 0~0.6V um Voltag	or short. I e: 30V, Ma	_ocal: 2~ ximum Sin		
5. ENABLE/DISABLE signal		Enable/Di	sable PS	ing control output by e	ramming monitor s electrical :	control by signal. Open signal or d	mode: 0 electrical collector. ry contact	ff. Maximu signal or Remote: C . 0~0.6V	m Voltage dry contac In. Local: (or short, 2	t. Remote Off. Maxim 2~30V or	: 0~0.6V um Voltag open. Use	or short. I e: 30V, Ma er selectab	_ocal: 2~ ximum Sin le logic.		
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Enable/Di Enable/Di	sable PS sable PS	ing control output by e output by e	gramming monitor s electrical s electrical s	control by signal. Open signal or d signal or d	mode: 0' electrical collector. ry contact	ff. Maximu signal or Remote: C . 0~0.6V . Remote:	m Voltage dry contac In. Local: (or short, 2 0~0.6V c	t. Remote Off. Maxim 2~30V or or short. Lo	: 0~0.6V um Voltag open. Use ocal: 2~3	or short. I e: 30V, Ma er selectab 60V or ope	Local: 2~ ximum Sin le logic. n.		
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5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Enable/Di Enable/Di Two open Maximum	sable PS sable PS drain pro low level	ing control output by e output by e grammable input volt	monitor s electrical s electrical s e signals. age = 0.8	control by signal. Oper signal or d signal or d Maximum BV,Minimu	mode: 0 electrical collector. ry contact ry contact voltage 2 m high lev	ff. Maximu signal or of Remote: Co. 0~0.6V . Remote: 5V, Maximu vel input vo	m Voltage dry contact on. Local: (or short, 2 0~0.6V contact on sink contage = 2	et. Remote Off. Maxim 2~30V or or short. Lo current 100	:: 0~0.6V um Voltag open. Use ocal: 2~3 OmA (Shu	or short. I e: 30V, Ma er selectab 60V or ope nted by 27	ocal: 2~ ximum Sin le logic. n. 'V zener)	k Current:	10mA.
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Specifications GENESYS+™ GSP (10/15kW)

Protective Functions		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection							nanges mode cle in autosta								on.	
2. Over-voltage protection (OVP)		Output shu	ut-down.	Reset by	AC input red	ycle in auto	start mode,	by OUTPUT	button, by	rear panel o	or by commi	unication.			
3. Over-voltage programmin	ng range	٧	0.5~12	1~24	2~36	2~44.1	5-55.125	5~66.15	5~88.2	5~110.25	5~165.37	7 5~220.5	5~330.75	5~441	5~551.25	5~661.
4. Over-voltage programming	accuracy		+/-1% of	rated ou	ıtput voltaç	je										
5. Output under voltage limi	t (UVL)		Prevents fi	rom adju	sting Vout	below limit	. Does not a	pply in ana	ogue progr	amming. Pro	eset by fron	it panel or co	ommunicatio	on port.		
6. Over temperature protecti	on		Shuts dow	n the ou	tput. Auto	recovery by	autostart m	ode.								
7. Output under voltage limi	t (UVL)		Prevents a	djustme	nt of Vout	below limit.										
8. Output under voltage prot (UVP)	ection						P.S output tode, by Pow					by commur	nication.			
Front Panel																
1. Control functions			Communio Output ON Communio Analogue	Power Li UVP man Functio cation Fu I/OFF. Fr cation Fu Control I	mit manua nual adjust ns - OVP, unctions - ront Panel unctions - Functions	Il adjust UVL,UVP, For Selection of Lock. Selection of S	oldback, OC LAN,IEEE,R Baud Rate, Voltage/resis of Voltage/C	S-232,RS-4 Address, IP stive progra	and comm mming, 5V/	unication la /10V, 5K/10	nguage.					
2. Display							output voltaç tput current									
3. Front Panel Buttons Indica	ations		OUTPUT C)N, ALAF	RM, PREVII	EW, FINE, C	OMMUNICA	TION, PROT	ECTION,CC	NFIGURATI	ON, SYSTE	M, SEQUEN	CER.			
4. Front Panel Display Indica	ations						ernal Voltag IEEE comm					afetstart, Fo	ldback V/I,			
Environmental Conditions	3															
1. Operating temperature			0~50°C,	100% lo	ad.											
2. Storage temperature			-30~85°0	3												
3. Operating humidity		%	20~90%	RH (no d	condensati	on).										
4. Storage humidity		%	10~95%	RH (no o	condensati	on).										
5. Altitude (*17)			Operating:	10000ft	(3000m),	output curre	ent derating 2	%/100m or	Ta derating	1°C/100m	above 2000	lm. Non oper	rating: 40000	Oft (12000	m).	
Mechanical																
1. Cooling					by interna	l fans. Air fl	ow direction	from Front	panel to po	ower supply	rear					
G	SP 10kW SP 15kW	_	Less than Less than	23.5kg												
,	SP 10kW SP 15kW	mm	W: 423, H W: 423, H	: 88, D: : 132.5,	640 (Inclu D: 441.5 (ding busbar Without bus	rs and busba is and busba sbars and bu sbars and bu	rs cover, ar sbars cove	·),	, ,		•				
4. Vibration			MIL-810G	, method	d 514.6, Pi	rocedure I, t	est conditio	Annex C -	2.1.3.1							
5. Shock			Less than	20G, hal	If sine, 11r	nS. Unit is ι	ınpacked.									
Safety/EMC	,															
Applicable standards: Sa	afety		UL61010-	1, CSA2	2.2 No.61	010-1, IEC6	31010-1, EN	61010-1								
1.1 Interface classification							1, J5, J6, J7, ense) are haz							Non Hazar	dous.	
1.2 Withstand voltage			Vout≤50V 60V≤Vout Output & C Output & C 100V <vo Output & C Output & C</vo 	Models ≤100V M J8 (sens J8 (sens J8 (sens J8 (sens	: Input — O Models: Inp e) - J1, J2 e) - Groun / Models: I e) - J1, J2 e) - Groun	utput & J8 (put – Output , J3, J4, J5, d: 1500Vdc Input – Outp , J3, J4, J5, d: 2500Vdc	(sense), J1, & J8 (sense J6, J7 & J9 1min, Input out & J8 (sen J6, J7 & J9 1min, Input	J2, J3, J4, e), J1, J2, J (communi - Ground: 2 ase), J1, J2 (communi - Ground: 2	J5, J6, J7 8 3, J4, J5, J cation optio 2835Vdc 1n , J3, J4, J5, cation optio 2835Vdc 1n	3 J9 (comm 6, J7 & J9 (ns): 850Vdo nin. , J6, J7 and ns): 1275Vd	unication o communic c 1min.	ptions): 424 ation options	2Vdc 1min, s): 4242Vdc	Input - Gr 1min,	ound: 2835Vd	lc 1min.
1.3 Insulation resistance							SRH. Output									
2. Conducted emission			IEC/EN612	204-3 In	dustrial en	vironment, <i>i</i>	Annex H tabl	e H.1 , FCC	Part 15-A,	VCCI-A.						
3. Radiated emission			IEC/EN612	204-3 In	dustrial en	vironment, <i>i</i>	Annex H tabl	e H.3 and	H4, FCC Pa	rt 15-A, VC	CI-A					
4. EMC compliance EM	MC(*18)		IEC/EN612	204-3 In	dustrial en	vironment										

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

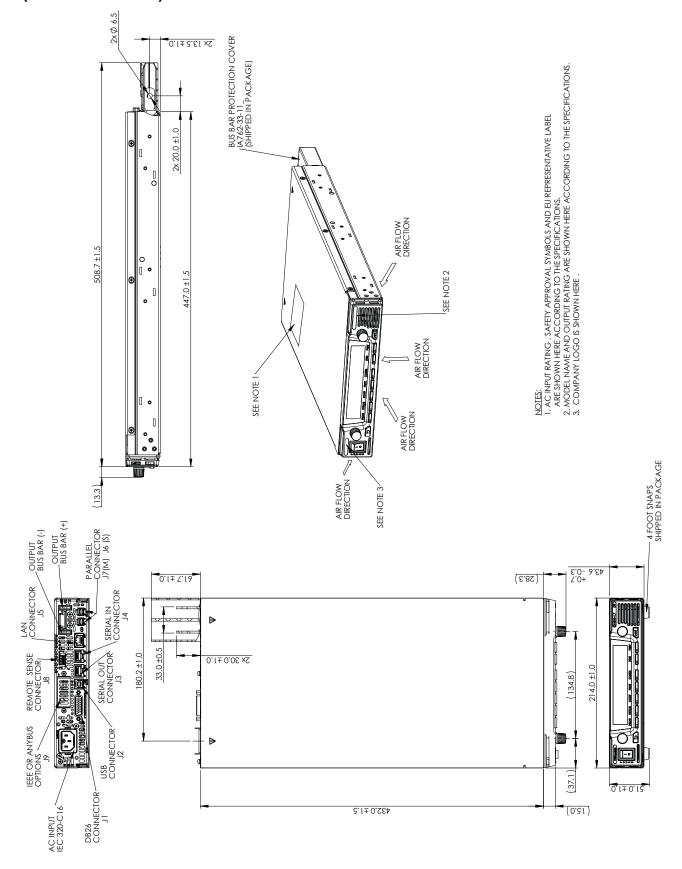
- $^{\star}1$: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
- *3: GSP10kW: Derate 10A/1°C above 40°C GSP15kW: Derate 15A/1°C above 40°C
- *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
- *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power
- *6: Not including EMI filter inrush current, less than 0.2mS.
- *7: 3-Phase 200V models: 170~265Vac, 3-Phase 400V models: 342~460Vac,
- 3-Phase 480V models: 342—528Vac. Constant load.
 *8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- *9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe
- For 200—600V models: Measured with 100:1 probe.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage. *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- *12: From 90% to 10% of Rated Output Voltage.
- * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.

- *14: For 10V model the ripple is measured at 2V and rated output current.
- For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz $\!\sim\! 1 \text{MHz}.$
- *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *16: Measured at the sensing point. *17: For 10V model Ta derating 2°C/100m.
- *18: "Signal and control ports interface cables length: Less than 3m,
- DC output power port cables length: Less than 30m. *19: Max. ambient temperature for using IEEE is 40°C.
- *20: GSP10kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 900A up to 30°C.
- *20 : GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.
- *21: For 10V model only: For 3-Phase 200V efficiency is 88.5% *22: Typ. at Ta=25°C, rated output power.
- *23: For steady state only.

GENESYS[™] Outline Drawings

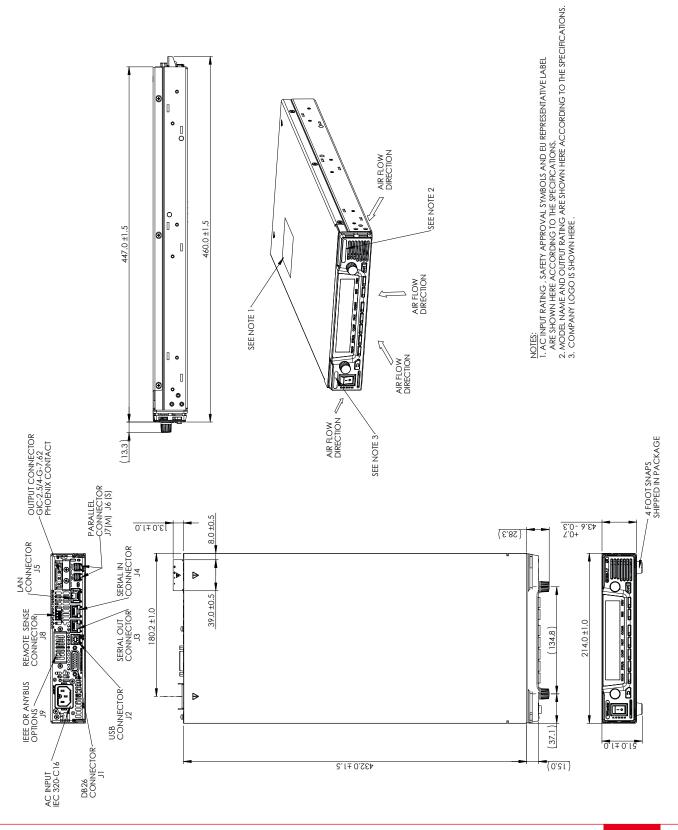
Outline Drawing GENESYS+™ GH (1kW)

(Models 10V-100V)



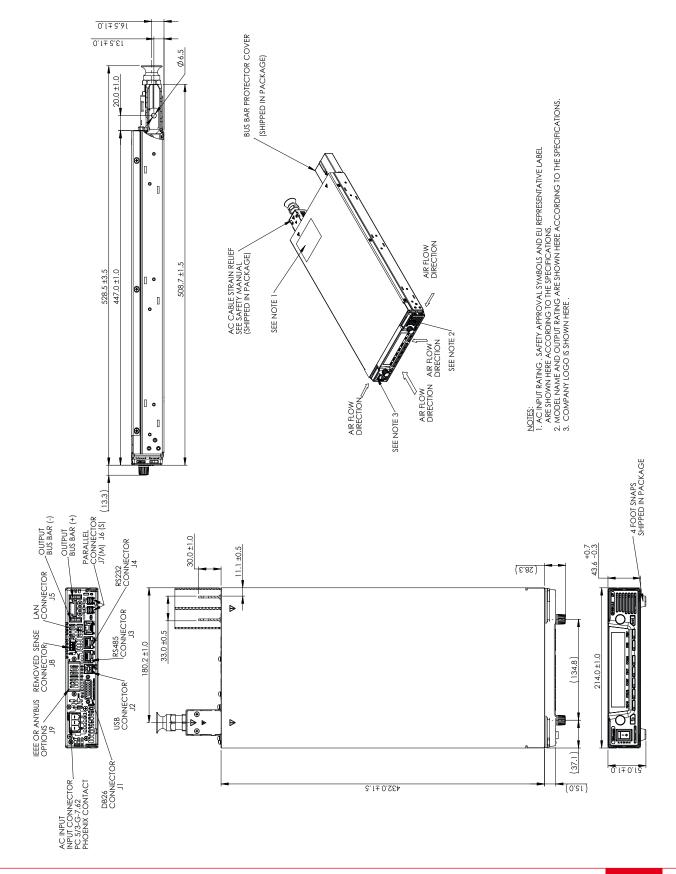
Outline Drawing GENESYS+™ GH (1kW)

(Models 150V-600V)



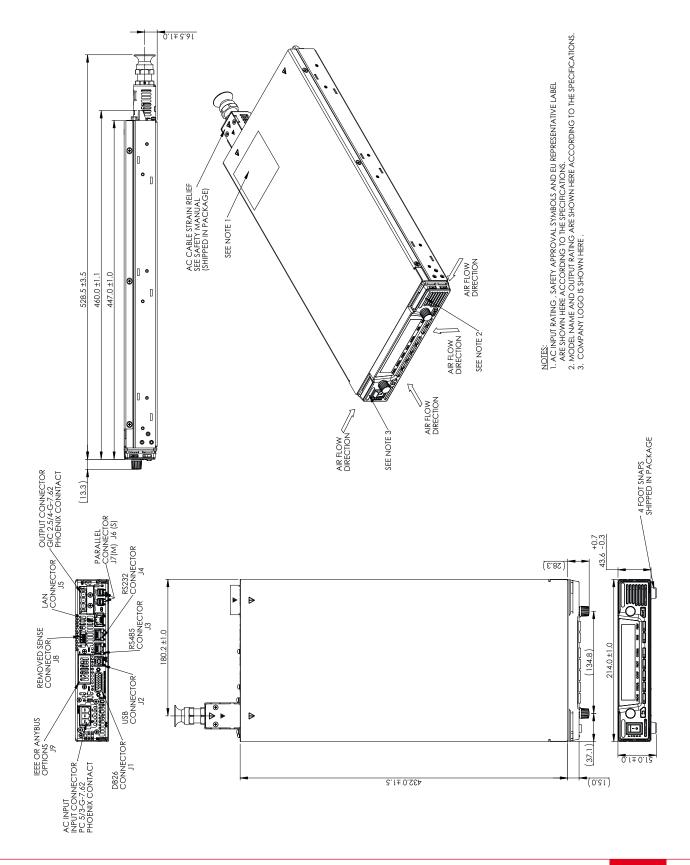
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 10V-100V)



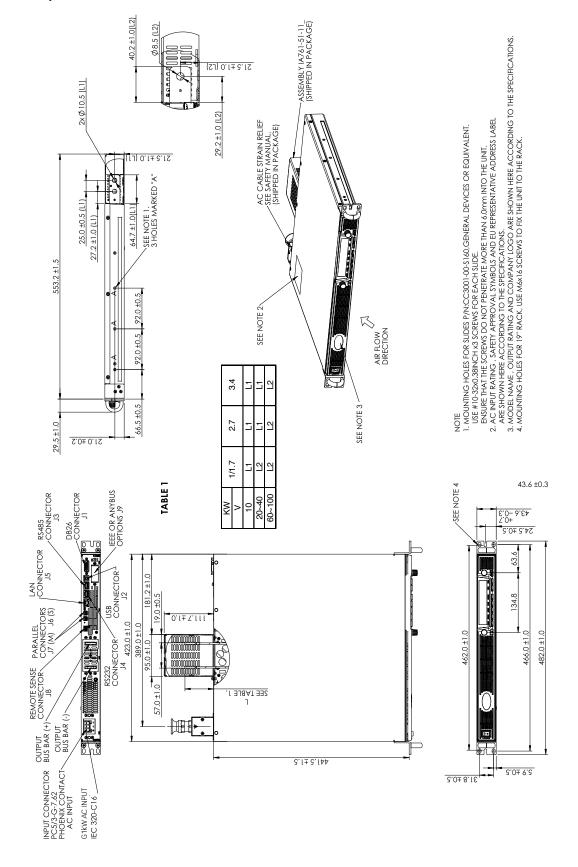
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 150V-600V)



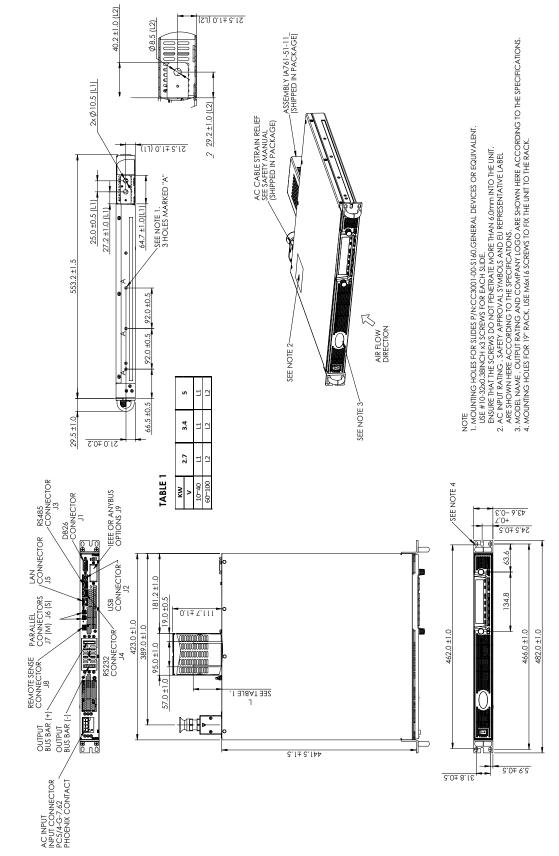
Outline Drawing GENESYS+™ G (1/1.7/2.7/3.4kW)

(1-Phase)

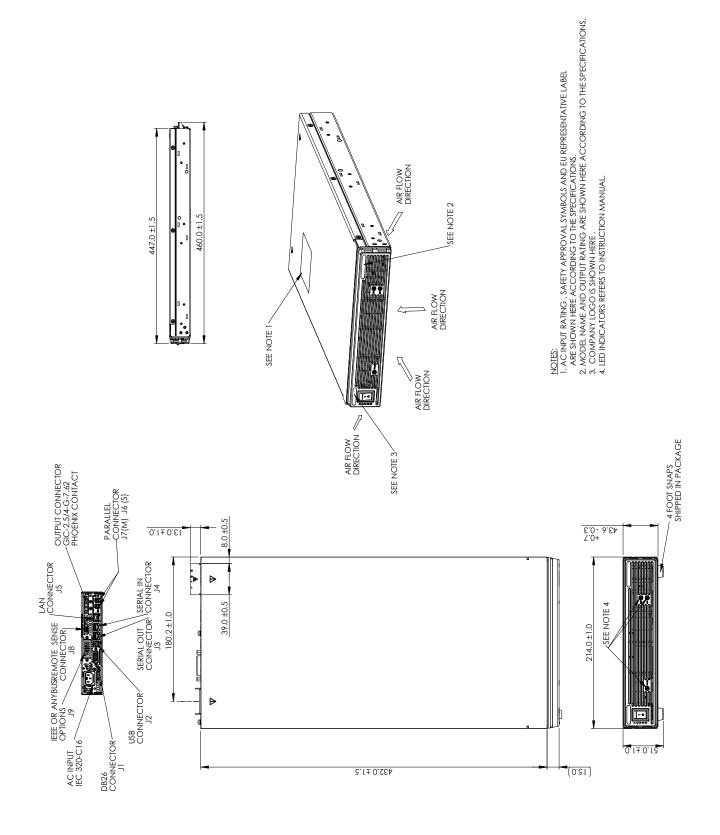


Outline Drawing GENESYS+™ G (2.7/3.4/5kW)

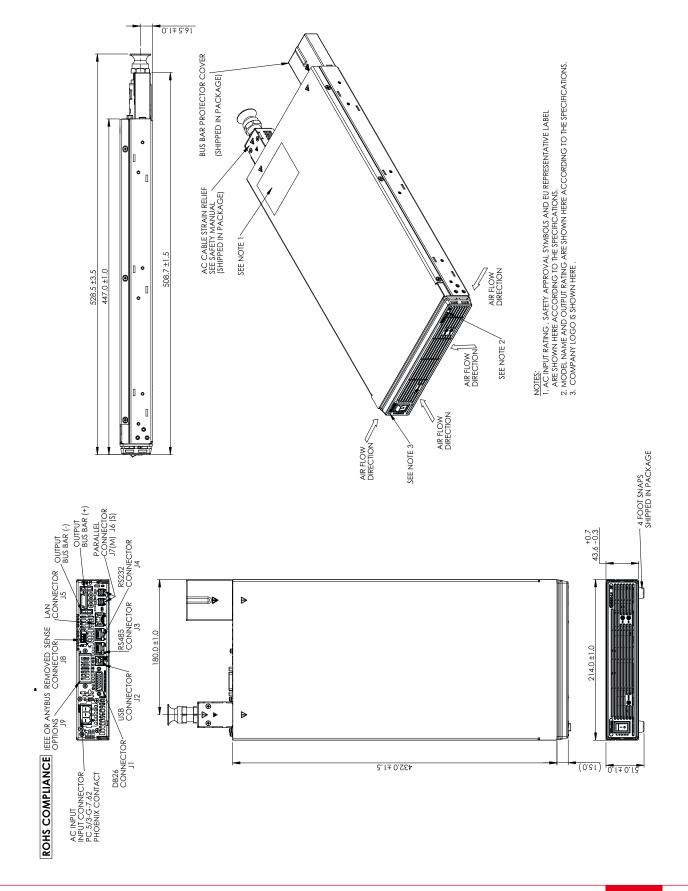




Outline Drawing GENESYS+™ GHB (1kW)

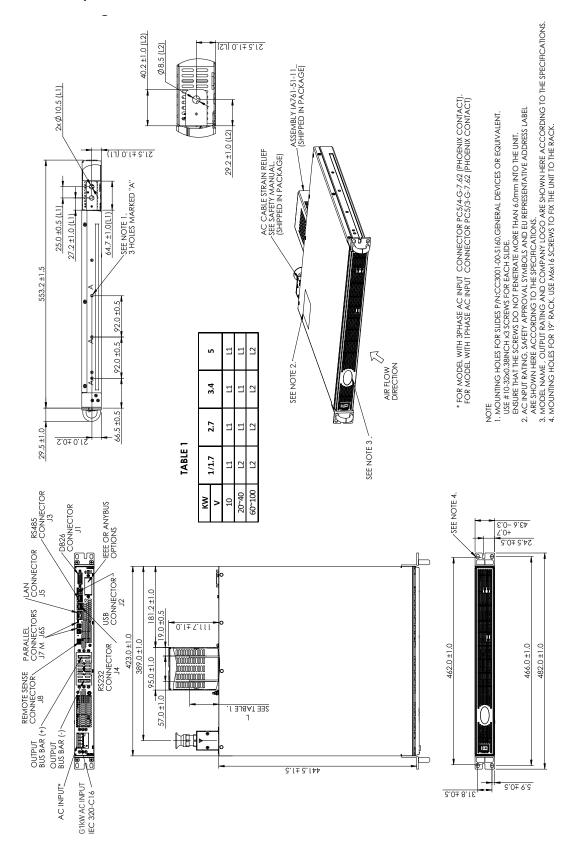


Outline Drawing GENESYS+™ GHB (1.5kW)

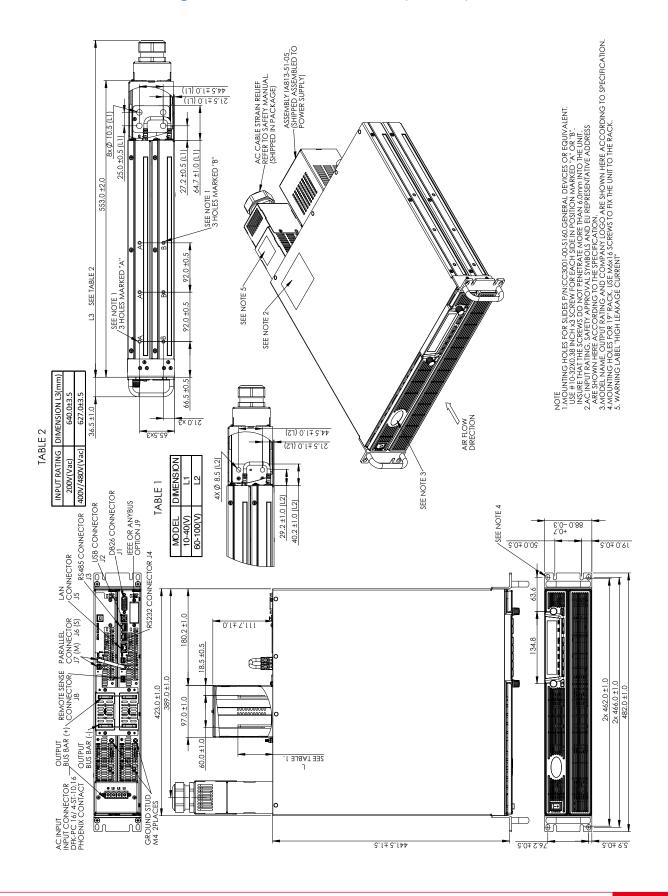


Outline Drawing GENESYS+™ GB (1/1.7/2.7/3.4/5kW)

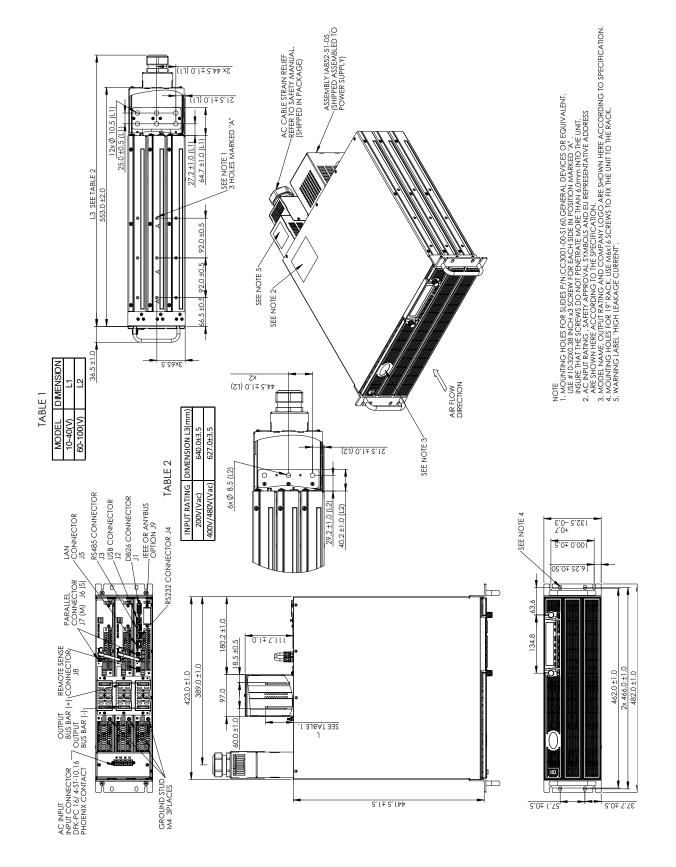
(ATE Version)



Outline Drawing GENESYS+™ GSP (10kW)



Outline Drawing GENESYS+™ GSP (15kW)



TDK-Lambda



Outline Drawing GENESYS+™ Air Filter Kit

