

Mess- und Prüftechnik, Die Experten,

# GENESYS G Series

Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

# ! Advanced Features Built-In!

- Arbitrary Waveform Generator with Auto-Trigger Capability
  - Programmable Slew Rate Control (Vout/lout)
- Constant Power Limit Operation Internal Resistance Programming
  - Built-In Remote Isolated Analog Interface
  - Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
  - Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
    - Blank Front Panel Option Available



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

### Features include:

- Leading DC Programmable power density (5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg</li>
- Wide Range of popular worldwide AC inputs:

G1kW/1.7kW: 1ø (85~265VAC)

G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)

G5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)

- Active PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- · Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed controlled by ambient temperature and load
- Certified LabWindows<sup>™</sup>/CVI, LabVIEW<sup>™</sup>, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 30kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

### **Applications**

**GENESYS™** power supplies have been designed to meet the demands of a wide variety of applications.

Test & Measurement systems, Component Device Testing, Manufacturing and process control.

Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology.

**Higher power systems** can be configured with up to six 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.

### **G1kW-5kW Front Panel Description**



- 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

### **G1kW-5kW Rear Panel Description**



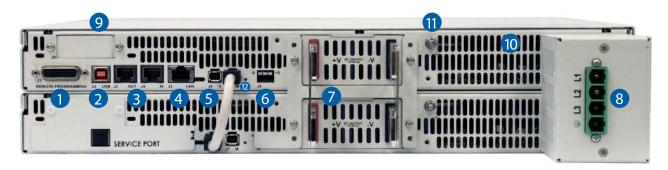
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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: 208VAC, 400VAC & 480VAC, Three Phase, 50/60 Hz. (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, 50/60 Hz. 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.

### **GSP10kW Front Panel Description**



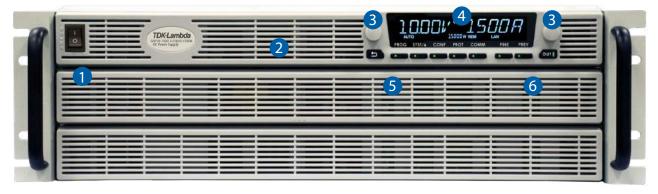
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

### **GSP10kW Rear Panel Description**



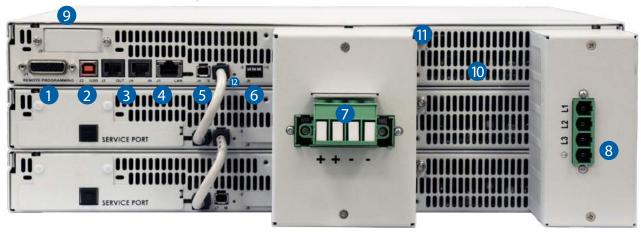
- Isolated Analog Programming, Monitoring and other control connector (DB26 Female) 1.
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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).
- Output Connections: Rugged busbars (shown) for models up to and including 100V Output; 7. Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- 8. Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. 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.

### **GSP15kW Front Panel Description**



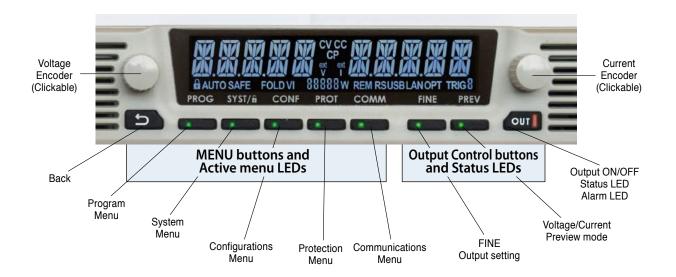
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

### **GSP15kW Rear Panel Description**

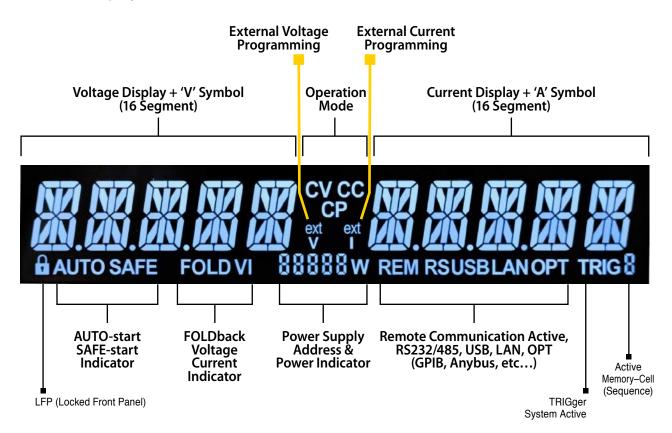


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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: 208VAC, 400VAC & 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**





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

### **GENESYS™ Parallel and Series Configurations**

### Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to six identical units to be connected

Total real current is programmed measured and reported by the Master. Up to six supplies operate as one.

Separate Parallel Kit available for 30kW (6 unit) systems allowing easy system setup.

Order P/N: G/P - 6U

### **Series operation**

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

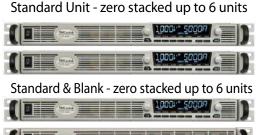
### **Multi-Drop Remote Programming via Communication Interface**

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.



LAN, USB, RS-232, RS-485, IEEE, AnyBus

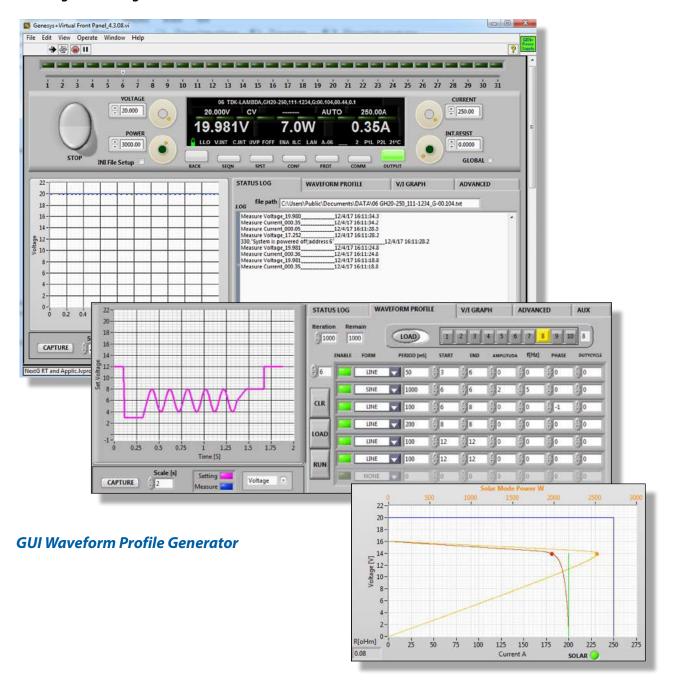




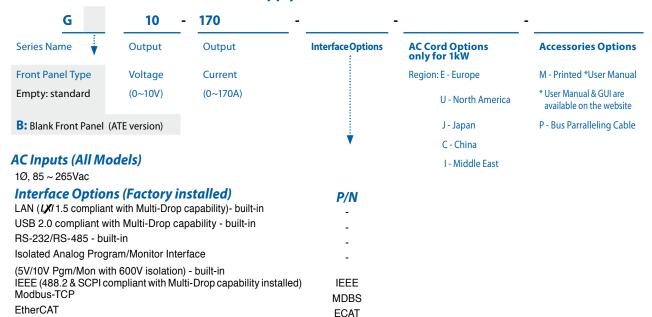
### **Graphical User Interface**

Advanced "Virtual Front Panel" allows programming and monitoring unit(s) with or without front panel display.

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



### How to order G1kW/1.7kW - Power Supply Identification / Accessories



Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000
G20-50	0~20V	0~50	1000
G30-34	0~30V	0~34	1020
G40-25	0~40V	0~25	1000
G60-17	0~60V	0~17	1020

Model	Voltage (V)	Current (A)	Power (W)
G80-12.5	0~80V	0~12.5	1000
G100-10	0~100V	0~10	1000
G150-7	0~150V	0~7	1050
G300-3.5	0~300V	0~3.5	1050
G600-1.7	0~600V	0~1.7	1020

### **Models 1.7kW**

**Models 1kW** 

Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700
G20-85	0~20V	0~85	1700
G30-56	0~30V	0~56	1680
G40-42	0~40V	0~42	1680
G60-28	0~60V	0~28	1680

Model	Voltage (V)	Current (A)	Power (W)
G80-21	0~80V	0~21	1680
G100-17	0~100V	0~17	1700
G150-11.2	0~150V	0~11.2	1680
G300-5.6	0~300V	0~5.6	1680
G600-2.8	0~600V	0~2.8	1680

### **Accessories**

Accessories will be sent separately 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	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **GENESYS**<sup>™</sup> 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

### How to order G2.7kW / 3.4kW - Power Supply Identification / Accessories

10 340 Series Name **Interface Options AC Input Options** Output Output **Accessories Options** Front Panel Type Voltage Current 1P208 (Single Phase 170~265VAC) M - Printed \*User Manual \* User Manual & GUI are Empty: standard (0~10V) (0~340A) 3P208 (Three Phase 170~265VAC) available on the website **B:** Blank Front Panel (ATE version) 3P400 (Three Phase 342~460VAC) 3P480 (Three Phase 342~528VAC) P - Bus Parralleling Cable P/N **Interface Options (Factory installed)** 

LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in

Isolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in  $\stackrel{\cdot}{\mathsf{IEEE}} \, (488.2\,\&\,\mathsf{SCPI}\,\mathsf{compliant}\,\mathsf{with}\,\mathsf{Multi-Drop}\,\overset{\cdot}{\mathsf{capability}}\,\mathsf{installed})$ Modbus-TCP

EtherCAT

**IEEE MDBS** 

**FCAT** 

### Models G2.7kW

Model	Output Voltage VDC	Output Current ( A )	Output Power ( W )
G10-265	0~10V	0~265	2650
G20-135	0~20V	0~135	2700
G30-90	0~30V	0~90	2700
G40-68	0~40V	0~68	2720
G60-45	0~60V	0~45	2700

Model	Output Voltage VDC	Output Current ( A )	Output Power (W)
G80-34	0~80V	0~34	2720
G100-27	0~100V	0~27	2700
G150-18	0~150V	0~18	2700
G300-9	0~300V	0~9	2700
G600-4.5	0~600V	0~4.5	2700

### Models G3.4kW

Model	Output Voltage VDC	Output Current ( A )	Output Power (W)
G10-340	0~10V	0~340	3400
G20-170	0~20V	0~170	3400
G30-112	0~30V	0~112	3360
G40-85	0~40V	0~85	3400
G60-56	0~60V	0~56	3360

Model	Output Voltage VDC	Output Current ( A )	Output Power (W)
G80-42	0~80V	0~42	3360
G100-34	0~100V	0~34	3400
G150-22.5	0~150V	0~22.5	3375
G300-11.5	0~300V	0~11.5	3450
G600-5.6	0~600V	0~5.6	3360

### **Accessories**

Accessories will be sent separately 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	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **GENESYS**<sup>™</sup> power supplies.

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

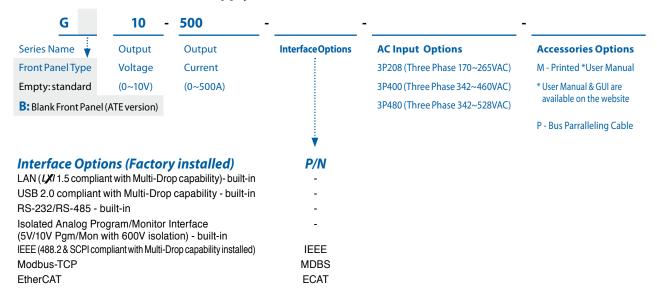
### 3. Bus Paralleling cable

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

### 4. User Manual

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Printed User Manual	G/M

### How to order G5kW - Power Supply Identification / Accessories



### **Models 5kW**

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

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

### Accessories

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

### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 GENESYS<sup>™</sup> 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

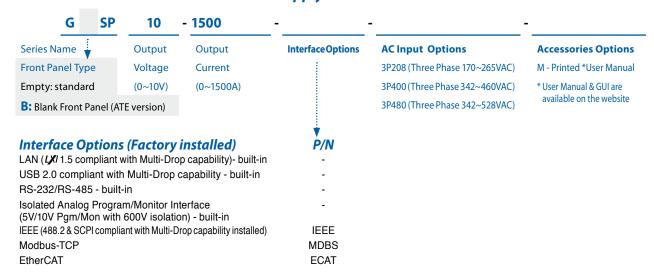
Printed User Manual	G/M
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### 5. Parallel Kit: 20kW/30kW

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

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

### How to order GSP10kW-15kW - Power Supply Identification / Accessories



### **Models GSP 10kW**

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1000	0~10V	0~1000	10
GSP20-500	0~20V	0~500	10
GSP30-340	0~30V	0~340	10.2
GSP40-250	0~40V	0~250	10
GSP50-200	0~50V	0~200	10
GSP60-170	0~60V	0~170	10.2
GSP80-130	0~80V	0~130	10.4

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-100	0~100V	0~100	10
GSP150-68	0~150V	0~68	10.2
GSP200-50	0~200V	0~50	10
GSP300-34	0~300V	0~34	10.2
GSP400-26	0~400V	0~26	10.4
GSP500-20	0~500V	0~20	10
GSP600-17	0~600V	0~17	10.2

### **Models GSP 15kW**

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1500	0~10V	0~1500	15
GSP20-750	0~20V	0~750	15
GSP30-510	0~30V	0~510	15.3
GSP40-375	0~40V	0~375	15
GSP50-300	0~50V	0~300	15
GSP60-255	0~60V	0~255	15.3
GSP80-195	0~80V	0~195	15.6

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-150	0~100V	0~150	15
GSP150-102	0~150V	0~102	15.3
GSP200-75	0~200V	0~75	15
GSP300-51	0~300V	0~51	15.3
GSP400-39	0~400V	0~39	15.6
GSP500-30	0~500V	0~30	15
GSP600-25.5	0~600V	0~25.5	15.3

### **Accessories**

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

### 2. Bus Paralleling cable (Included with the power supply)

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

### 3. User Manual

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	Printed User Manual	G/M

### **G**ENESYS<sup>™</sup> Family Output Voltage and Current

Models Series		•	Front Panel D			GSP (Scalable Power)		
Wodels Series		GB (Blan		GBSP (Scala	able Power)			
Rated Power	1kW	1.7kW	5kW	10kW	15kW			
Voltage Range			Cı	ırrent Range (	(A)			
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A	0~1000A	0~1500A	
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A	0~500A	0~750A	
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A	0~340A	0~510A	
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A	0~250A	0~375A	
0-50V	-	-	-	-	0~100A	0~200A	0~300A	
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A	0~170A	0~255A	
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A	0~130A	0~195A	
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A	0~100A	0~150A	
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A	0~68A	0~102A	
0-200V	-	-	-	-	0~25A	0~50A	0~75A	
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A	0~34A	0~51A	
0-400V	-	-	-	-	0~13A	0~26A	0~39A	
0-500V	-	-	-	-	0~10A	0~20A	0~30A	
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A	0~17A	0~25.5A	
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** 

/ te ilipatitions							
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	*	*	*	*	*

### Also available GH 1kW/1.5kW Series Half-Rack 1kW/1.5kW in 1U Height



### **Models 1kW**

Model	Voltage (V)	Current (A)	Power (W)
GH10-100	0~10V	0~100	1000
GH20-50	0~20V	0~50	1000
GH30-34	0~30V	0~34	1020
GH40-25	0~40V	0~25	1000
GH60-17	0~60V	0~17	1020

Model	Voltage (V)	Current (A)	Power (W)
GH80-12.5	0~80V	0~12.5	1000
GH100-10	0~100V	0~10	1000
GH150-7	0~150V	0~7	1050
GH300-3.5	0~300V	0~3.5	1050
GH600-1.7	0~600V	0~1.7	1020

### **Models 1.5kW**

Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500
GH20-75	0~20V	0~75	1500
GH30-50	0~30V	0~50	1500
GH40-38	0~40V	0~38	1520
GH60-25	0~60V	0~25	1500

Model	Voltage (V)	Current (A)	Power (W)
GH80-19	0~80V	0~19	1520
GH100-15	0~100V	0~15	1500
GH150-10	0~150V	0~10	1500
GH300-5	0~300V	0~5	1500
GH600-2 6	0~600V	0~2.6	1560

### **GENESYS™ 1kW SERIES SPECIFICATIONS**

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)	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  1.Input voltage/freq. (*3)	V	10 95 365Vas s	20	30 ~63Hz,Single	40 Dhasa	60	80	100	150	300	600
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5	.ontinuous, 47	~03HZ,3HIGIE	riiase						
3.Power Factor (Typ)				Vac, rated out				,			
4.Efficiency at 100 Vac/200Vac, rated output (*17) 5.Inrush current (*5)	% A	86/88 Less than 50/	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
	_										
CONSTANT VOLTAGE MODE  1.Max. Line regulation (*6)	V	10 0.01% of rato	d output volta	30	40	60	80	100	150	300	600
2.Max. Load regulation (*7)			d output volta	-							
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up	).				
6.Temperature stability					lowing 30 min				э.		
7. Warm-up drift				T	-2mV over 30 r					-	-
8.Remote sense compensation/wire (*10)	V mS	35	35	5 35	5 35	5 35	5 35	5 40	5 50	5 100	5 100
9.Up-prog. Response time (*11) Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for out	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	e 10~90% of r	rated output c	urrent. Output	t set-point:
·				s than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
12.Start up delay 13.Hold-up time	Sec mS	Less than 6 Se	er.		20.	ms typical rat	ed output pov	wer			
'	_	40	20	20					150	200	
CONSTANT CURRENT MODE  1.Max. Line regulation (*6)	V	10 0.03% of rate	d output curr	30 ent ±2m∆	40	60	80	100	150	300	600
2.Max. Load regulation (*9)			d output curr								
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
T	DDM /0C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mii	nutes warm-u	p.			
5.Temperature coefficient	PPM/°C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 min	utes warm-up.				
5.Temperature stability					lowing 30 min						
· · · · · · · · · · · · · · · · · · ·		_			ated output c				n.		
· · · · · · · · · · · · · · · · · · ·		_			ated output courrent				on.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED		150V~600V: L	Less than +/-0	.15% of rated o	output current	over 30 minu	tes following	power on.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1. Vout voltage programming	FROM T	150V~600V: l HE OUTPUT) 0~100%, 0~5	Less than +/-0	.15% of rated of	output current	over 30 minu linearity: +/-0	tes following	power on.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1. Vout voltage programming 2. lout voltage programming (*14)	FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5	Less than +/-0 V or 0~10V, us V or 0~10V, us	.15% of rated of ser selectable. ser selectable.	Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0	tes following posteriors that the state of t	power on.  Vout.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming	FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	Less than +/-0 V or 0~10V, us V or 0~10V, us V/10Kohm full	ser selectable. ser selectable. ser selectable.	Accuracy and Accuracy and Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear	.15% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).	Vout.	n.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14)	FROM T	150V~600V: L  HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	Less than +/-0 V or 0~10V, us V or 0~10V, us I/10Kohm full	ser selectable. ser selectable. scale, user sele scale, user sele	Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	.15% of rated \(\frac{1}{2}\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\	Vout.	n.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor	FROM T	150V~600V: I  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy accu	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout.	.15% of rated \(\frac{1}{2}\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\	Vout.	n.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1./Out voltage programming 2.lout voltage programming (*14) 3./Out resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)		150V~600V: I  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accuracy are ectable. Accuracy are ectable. Accuracy actable.	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout.	.15% of rated \(\frac{1}{2}\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\).4% of \(\frac{1}2\	Vout.	n.		
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.1/2014 voltage programming 2.1out voltage programming (*14) 3. Vout resistor programming 4.1out resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU		150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	Less than +/-0  V or 0~10V, us V or 0~10V, us V/10Kohm full VV, user selecta VV, user selecta	.15% of rated control of the control	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy are accurately acc	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout.	tes following   .15% of rated \(\). .4% of rated \(\) ity: +/-0.5% of \(\) ity: +/-0.5% of	yout. Frated Vout. Frated lout.		um Sink Curre	nt: 10mA.
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal	D FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	Less than +/-0  IV or 0~10V, us  IV or 0~10V, us  IV Or 0~10V, us  IV OKOHM full  IV OKOHM full  IV US  IV	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli	Accuracy and Accuracy and Accuracy and ectable. Accuracy actable. Accuracy accuracy actable. Accuracy accuracy accuracy accuracy accuracy accuracy accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Outpu:	tes following   1.15% of rated   1.4%	yout.  yout.  rated Vout.  rated lout.  kimum Voltag V, Maximum S	e: 30V, Maxim ink Current: 10	0mA.	
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	D FROM T T)	150V~600V: I  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  Power supply  CV/CC Monite	Less than +/-0  IV or 0~10V, us  IV or 0~10V, us  IV 10Kohm full  IV 10Kohm full  IV, user selecti  IV, user selecti  V output moni  or. Open colle  ple analog pro	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli- ctor. CC mode gramming col	Accuracy and Accuracy and Accuracy and ectable. Accuracy actable. Accuracy accuracy actable. Accuracy accuracy accuracy accuracy accuracy accuracy accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Output: Off. Maximu ical signal or of	tes following   .15% of rated   .4% of rated   ity: +/-0.5% of ity: +/-0.5% of at Off: Off. Max m Voltage: 30'	vout.  Vout.  Frated Vout.  Frated lout.  Kimum Voltag V, Maximum S  mote: 0~0.6V	e: 30V, Maxim ink Current: 10 or short. Loca	0mA. al: 2~30V or op	en.
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5. Output voltage monitor (*14) 5. Output voltage monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	D FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disak analog progr	Less than +/-0  V or 0~10V, us  V or 0~10V, us  V/10Kohm full  V/10Kohm full  VV, user select  VV, user select  v output moni or. Open colle  cle analog pro  amming contr	ser selectable. ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll cctor. CC mode gramming col ol monitor sig	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectable. Accuracy are 4-4-0.5% of raver 4-4-0.5% of raver 4-0.5% of	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout.  On: On. Output to Off. Maximu ical signal or off.	tes following   .15% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of \(\frac{1}{2}\).4%	Vout.  Out.  Frated Vout.  Frated lout.  Kimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo	e: 30V, Maxim ink Current: 1 or short: Loca Itage: 30V, Ma:	0mA. al: 2~30V or op ximum Sink Cu	en.
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5. Output voltage monitor (*14) 5. Output voltage monitor (*14) 5. Goutput current monitor (*14) 5. SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	D FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disak analog progr	Less than +/-0  IV or 0~10V, us  IV ov  IV user select  IV user select  IV user select  IV output moni  Iv output or  I	ser selectable. ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll cotor. CC mode gramming col ol monitor sig by electrical sig	Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectar. Output to according to the ectar. Output to according to the ectar and the e	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Output : Off. Maximu cal signal or o core. Remote:	tes following   .15% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).4% of rated \(\frac{1}{2}\).25% of \(\frac{1}{2}\).17 (10.5% of \(\frac{1}{2}\).25% of \(\frac{1}{2}\).27 (10.5% of \(\frac{1}\).27 (10.5% of \(\frac{1}{2}\).27 (10.5% of \(\frac{1}{2}\).27 (10.5% of \(\f	yout.  yout.  rated Vout.  rated lout.  kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	e: 30V, Maxim ink Current: 1 or short. Loca Itage: 30V, Ma: er selectable lo	0mA. al: 2~30V or op ximum Sink Cu	en.
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.1 Vout voltage programming (*14)  2. lout voltage programming (*14)  3. Vout resistor programming (*14)  5. Output voltage monitor (*14)  5. Output voltage monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	D FROM T	150V~600V: I  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  CV/CC Monit  Enable/Disak  analog progr  Enable/Disak  Enable/Disak  Enable/Disak	Less than +/-0  IV or 0~10V, us  IV output monion  IV	ser selectable. ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll- ictor. CC mode gramming col of monitor sig by electrical si-	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectable. Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear acy and linear ted Vout. ted lout. On: On. Outpu : Off. Maximu cacl signal or c ctor. Remote: htact. 0~0.6V	tes following   .15% of rated \( \).4% of rated \( \).4% of rated \( \) ity: +/-0.5% of \( \) ity: -/-0.5% of \( \) of \(	yout.  yout.  rated Vout.  rated lout.  wimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	e: 30V, Maxim ink Current: 1 ' or short. Loca Itage: 30V, Mai er selectable le i0V or open.	0mA. al: 2~30V or op ximum Sink Cu ogic.	en.
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.Output current monitor (*14) 6.Output current monitor (*14) 6.Output current monitor (*15) 6.Output current monitor (*15) 6.Output current monitor (*15) 6.Output current monitor (*15) 6.Output current monitor (*16) 6.Output cu	D FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 to constant of the constant of	Less than +/-0  V or 0~10V, us  V or 0~10V, us  V/10Kohm full:  V, user selects  V, user selects  V output monior. Open colle  le analog pro  amming contr  le PS output l  le PS output l  lie PS output l  ain programm	ser selectable. ser selectable. scale, user sele sable. Accuracy able. Accuracy itor. Open collictor. CC mode gramming coi of monitor sig oby electrical si by electrical si able signals. N	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and Accuracy	over 30 minu linearity: +/-0 linearity: +/-0 cy and linear ety and linear ted Vout. ted lout. On: On Outpu: : Off. Maximu cal signal or c ctor. Remote: ntact. 0~0.6V htack. Remote	tes following in the fo	yout.  yout.  put.  rated Vout.  rated Iout.  kimum Voltag  V, Maximum S  mote: 0~0.6V  Maximum V  or open. Use  ort. Local: 2~3  ent 100mA (S	e: 30V, Maxim ink Current: 10 or short. Loca ltage: 30V, Ma: 15 selectable le 16 or open. hunted by 27V	0mA. al: 2~30V or op ximum Sink Cu ogic.	en. Irrent: 10mA
7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5. Output voltage monitor (*14) 5. Output voltage monitor (*14) 5. Output current monitor (*14) 5. IGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	D FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disat analog progr Enable/Disat Two open dra Two open dra Maximum liedge trigge	Less than +/-0  IV or 0~10V, us  IV output moni  IV output los  IV output los	ser selectable. ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli- ctor. CC mode gramming co- rol monitor sig by electrical si- by electrical si- by electrical si- able signals. A tz voltage = ( ninimum. Tr, T	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectable. Accuracy and ectable. Accuracy and ectable. Accuracy ac	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Outpu: : Off. Maximu cal signal or o cctor. Remote: htact. 0-0.6V natc. Remote age 25V, Maxim n high level	tes following in the state of t	yout.  yout.  put.  rated Vout.  rated lout.  rated lout.  wimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Volt or open. Use ort. Local: 2~3  ent 100mA (S  e = 2.5.V, Max	e: 30V, Maxim ink Current: 10 or short. Loca Itage: 30V, Mai er svl or table le by the comment of the comment in the comment of the comment of the comment in the comment of the comment o	0mA. al: 2~30V or op ximum Sink Cu ogic. / zener)	en. Irrent: 10mA
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7. Warm-up drift  ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.Gutput voltage monitor 6.Output current monitor (*14) 5.Gutput current monitor (*14) 5.Gutput current monitor (*14) 5.Gutput current monitor (*14) 6.Output current monitor (*14) 7.Power supply OK #1 signal 7.Cv/CC si	FROM T	150V~600V: I HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~1	Less than +/-0  IV or 0~10V, us  IV or 0	ser selectable. ser selectable. ser selectable. scale, user sele scale scale, user sele scale scale, user sele scale scale, user sele scale	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accuracy and Accuracy	over 30 minu linearity: +/-0 linearity: +/-0 cay and linear acy and linear ted Vout.  On: On. Outpu : Off. Maximu cal signal or or catcor. Remote: thatct. 0~0.6V thatact. Remote age 25V, Maxi in high level laum, Min del	tes following in the state of t	vout.  vout.  vout.  rated Vout.  rated Vout.  rated lout.  rated lout.  vout.  rated lout.  rated lout.  vout.  vout.  vout.  rated lout.  vout.  vout.  rated lout.  vout.  vout.  vout.  rated lout.  vout.	e: 30V, Maxim ink Current: 1t or short. Local tage: 30V, Max er selectable le i0V or open. hunted by 27V kimum high l i. or the front pai ports or the fr ec. or A/mSec. munication po	OmA.  al: 2~30V or op  kimum Sink Cu  ogic.  / zener)  level input =  nel.  ont panel.  Programming  orts or by the fr	en.  Frent: 10mA  5V positive  via the  ront panel.  600

### **GENESYS™ 1.7kW SERIES SPECIFICATIONS**

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)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100	% load (100/200)	Α	20/10									
3.Power Factor (Typ) 4.Efficiency at 100 Vac/200Vac, ra	atad autaut (*10)	 %	0.99 @ 100Va 86/88	c 0.98 @ 200 87/89	Vac, rated out 87/89	put power. 87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	ated output (* 19)	70 A	Less than 50A		0//09	0//09	07/09	0//09	00/90	00/90	00/90	00/90
		-		1	20	10		- 00	100	150	200	600
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)				d output volta	•							
2.Max. Load regulation (*7) 3.Ripple and noise (p-p, 20MHz)	(*o)	mV	50	d output volta	50 50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	(*0)	mV	6	6	6	7	7	10	75 12	75 8	20	100
5.Temperature coefficient		PPM/°C	_			lowing 30 min			12		20	100
6.Temperature stability						lowing 30 min			e Inad & tem	n		
7. Warm-up drift						-2mV over 30 r				ρ.		
8.Remote sense compensation/w	vire (*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
	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
10.Down-prog.response time:	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
	1			out voltage to								
11.Transient response time		mS	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output 10~100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.									
12.Start up delay		Sec	Less than 6 Se	ec							-	
13.Hold-up time		mS				161	ns typical, rat	ed output pov	ver			
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			0.01% of rate	d output curre	ent. +2mA							
2.Max. Load regulation (*9)			0.02% of rate	d output curre	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
Tomporature coefficient		PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mii	nutes warm-u	p.			
5.Temperature coefficient		PPIVI/ C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 min	utes warm-up.				
5.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	. Constant line	e, load & tem	perature.		
7. Warm-up drift			10V~100V mo	odel: Less thar	n +/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power	on.		
waiiii-up uiiit			150V~600V: L	ess than +/-0.	.15% of rated o	output current	over 30 minu	tes following p	power on.			
ANALOG PROGRAMMING AND I	MONITORING (ISOLATED	FROM T	HE OUTPUT)									
1.Vout voltage programming	·		1	V or 0~10V us	1							
					er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	∕out.			
* . *	4)											
2.lout voltage programming (*14	4)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and Accuracy and ectable. Accura	linearity: +/-0	.4% of rated Ic	out.			
2.lout voltage programming (*14 3.Vout resistor programming		_	0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full :	er selectable. scale, user sele	Accuracy and	linearity: +/-0 acy and linear	.4% of rated Ic ity: +/-0.5% of	out. rated Vout.			
2. lout voltage programming (*14 3. Vout resistor programming 4. lout resistor programming (*14			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full : /10Kohm full :	ser selectable. scale, user sele scale, user sele	Accuracy and ectable. Accura	linearity: +/-0 acy and linear acy and linear	.4% of rated Ic ity: +/-0.5% of	out. rated Vout.			
2. lout voltage programming (*14 3. Vout resistor programming 4. lout resistor programming (*14 5. Output voltage monitor			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full s /10Kohm full s V, user selecta	ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and ectable. Accuracy	linearity: +/-0 acy and linear acy and linear ted Vout	.4% of rated Ic ity: +/-0.5% of	out. rated Vout.			
2. lout voltage programming (*14 3. Vout resistor programming 4. lout resistor programming (*14 5. Output voltage monitor 6. Output current monitor (*14)	1)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full s /10Kohm full s V, user selecta	ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy actable. Accuracy: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout	.4% of rated Ic ity: +/-0.5% of	out. rated Vout.			
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 (ISOLA	1)	   T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full s /10Kohm full s /V, user selecta V, user selecta	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy ectable. Accuracy: +/-0.5% of rate	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%.	.4% of rated lo ity: +/-0.5% of ity: +/-0.5% of	rated Vout. rated lout.	ue 30V Maxim	um Sink Curre	nt· 10mA
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 (ISOL/ 1. Power supply OK #1 signal	1)	   T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full : /10Kohm full : IV, user selecta IV, user selecta V output moni	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy tor. Open coll	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5% of rate ector. Output	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	.4% of rated lo ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max	out. rated Vout. rated lout.	je: 30V, Maximi		nt: 10mA.
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### GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection			Output shut- User presetab	down when pole. Reset by A	ower supply c	hanges mode e in autostart	from CV or Po mode, by Pov	ower Limit to wer Switch, by	CC mode or fro OUTPUT butt	om CC or Pow on, by rear pa	er Limit to CV	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input red	ycle in autost	art mode, by	OUTPUT butt	on, by rear par	nel or by comi	munication.	
3.Over -voltage programming ran	ige	V	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	curacy		+/-1% of rated	output volta	ge							
5.Output under voltage limit (UVI	_)		Prevents from	adjusting Vo	ut below limit	. Does not app	oly in analog	programming	. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection			Shuts down t	ne output. Au	to recovery by	autostart mo	de.					
7. Output under voltage limit (UV)	L)		Prevents adju	stment of Vol	ut below limit.							
8. Output under voltage protection	on (UVP)		Prevents adju mode, by Pov	stment of Vou ver Switch, by	ut below limit. OUTPUT butt	P.S output tur on, by rear par	ns Off during nel or by com	under voltag munication.	e condition. R	eset by AC in	put recycle in a	autostart
FRONT PANEL												
1.Control functions			Multiple option	ons with 2 Enc	oders							
			Vout/lout/Po									
			OVP/UVL/UVI	manual adiu	st							
						dback, OCL, EN	IA.ILC					
								or Optional c	ommunication	n interface.		
			Output ON/O			.,,	,,550					
						Baud Rate, Ad	dress, IP and	communicati	on language			
									10K programn	nina		
						Voltage/Curre			.c programm	9		
2.Display						utput voltage		g 5 4/ 10 V.				
Z.Dispiay						put current +/						
3.Front Panel Buttons Indications								NI CONITICUE	ATION, SYSTEM	A SECULENCE	n	
3.FIGHT Pariet Buttons indications							-					
4. Front Panel Display Indications			Voltage, Curre (communicat	ent, Power, CV ion), RS/USB/L	/, CC, CP, Exter _AN/IEEE com	nal Voltage, Ex munication, Tr	rternal Currei igger, Load/S	nt, Address, Ll Store Cell.	P, Autostart, S	afetstart, Fol	dback V/I, Rem	iote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 100%	load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (r	no condensati	on)							
4.Storage humidity		%	10~95% RH (r									
5.Altitude		70				ent derating 29	6/100m or Ta	derating 1°C/	100m above 2	000m Non or	perating: 40000	Oft (12000m)
			pperating. 10		,, output curre	derdening 27	5, 100111 01 14	deruting i e				
MECHANICAL			I									
1.Cooling			Forced air cod		nal fans. Air flo	w direction: fr	om Front par	nel to power s	upply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm				sbars and bu usbars and b			Outline draw	ing).		
4.Vibration			MIL-810G, me	thod 514.6, Pr	rocedure I, tes	t condition An	nex C - 2.1.3.1	1				
5.Shock			Less than 200	, half sine, 11r	mSec. Unit is u	npacked.						
SAFETY/EMC												
1. Applicable standards:	Safety G1kW/G1.7kW		UL61010-1, CS	A22.2 No.610	10-1, IEC61010	)-1, EN61010-1.						
1.1. Interface classification	G1kW/1.7kW		Vout ≤40V Mo 60≤ Vout≤ 6	odels: Output, 00V Models: C	, J1,J2,J3,J4,J5, Output, J8 (ser	J6,J7,J8 (sense ise) are hazard	e) and ,J9 (con ous, J1,J2,J3,	nmunication of	options) are SE d J9 (communi	LV. cation optior	ns) are SELV	
			Vout <40V M	odels: Innut	- Output (SF)	V): 4242VDC	1min Innut	- Ground: 21	335VDC 1min	1		
1.2 Withstand voltage	G1kW/1.7kW			00V Models:	Input - Outpu	it: 4242VDC 1	Imin, Input -	SELV: 4242\			850VDC 1mi	n,
			100 <vout≤6< td=""><td>00V Models:</td><td>Input - Outpu</td><td></td><td>1min, Input -</td><td>SELV: 4242</td><td>/DC 1min, Ou</td><td>utput - SELV</td><td>1275VDC 1m</td><td>nin,</td></vout≤6<>	00V Models:	Input - Outpu		1min, Input -	SELV: 4242	/DC 1min, Ou	utput - SELV	1275VDC 1m	nin,
1.3 Insulation resistance	1		<u> </u>		Output to Gro							
							11 FCC D	15 A VCCL A	-			
2.Conducted emmission						nnex H table I			1001			
3.Radiated emission	F146 (*0)					nnex H table I	1.3 and H4, F	CC Part 15-A,	VCCI-A			
4. EMC compliance	EMC (*4)		According to	IEC/EN61204-	3 industrial er	wironment						

- 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: For cases where conformance to various safety standards (UL, EC, 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 0.2m5ec.
  \*6: 85-r312Vac 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 1004-300V models: Measured with JETA RC-913TC (1:1) probe. For 400-600V 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, with rated, resistive load.
  \*12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
  \*13: 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 turrent programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
  \*15: Measured at the sensing point.
  \*16: Measured at the sensing point.
  \*17: Ta=25°C, rated output power.

dataTec

### **GENESYS™ 2.7kW SERIES SPECIFICATIONS**

OUTPUT RATING		r.	10.265	20 125	30.00	10.60	60 45	gn 24	100.27	150 10	300.0	600-4.5	
1.Rated output voltage(*1)		G V	10-265 10	20-135 20	30-90 30	40-68 40	60-45 60	80-34 80	100-27 100	150-18 150	300-9 300	600-4.5	
2.Rated output current (*2)		A	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		٧	10	20	30	40	60	80	100	150	300	600	
1.Input voltage/freq. 3 phase, 3 wir	e + Ground (*4)		3-Phase, 400' 3-Phase, 480'	V models: 342 V models: 342	~460Vac, 47~ ~528Vac, 47~		380/400/415\ 380/400/415/	40/460/480Va					
2. Maximum Input current at	I-Phase, 200V models: I-Phase, 400V models:		10A @ 200Va 5.5A @ 380Va	c ic	~265Vac, 47~I	53Hz (Covers 2	200/208/230/	240Vac)					
	-Phase, 480V models: -Phase, 200V models:		5.5A @ 380Va 16.5A @ 200V										
3.Power Factor (Typ) —	Thuse, 2007 models.		For 3-Phase:	0.94 @ 200/38	OVac, rated or , rated outpu								
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		% A	88 Less than 50	89 A	89.5	90	90	90.5	90.5	90.5	90.5	90.5	
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*7)			0.01% of rate										
2.Max. Load regulation (*8)	0)	mV		d output volta 75	age +5mV 75	75	80	80	100	120	200	480	
3.Ripple and noise (p-p, 20MHz)  (*9 4.Ripple r.m.s. 5Hz~1MHz (*9)	9)	mV mV	75 8	10	10	75 12	15	15	15	20	60	100	
5.Temperature coefficient		PPM/°C				llowing 30 mii			13	20	00	100	
6.Temperature stability								p. Constant lii	ne, load & tem	p.			
7. Warm-up drift			Less than 0.0					wing power o	n.				
8.Remote sense compensation/wir	e (*10)	٧	2	2	5	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)	ull load (*11)	mS c	30	30	30	30	50	50	50	50	50	100	
1() I )own-prod response time:	full load (*11) No load (*12)	mS mS	50 450	50 600	80 800	80 900	80 1100	100 1300	100 2100	100 2000	100 3200	200 3100	
11.Transient response time	NO 10au ( 12)	mS mS	Time for outp	out voltage to	recover withi	n 0.5% of its r	ated output fo	or a load chang g 100V. 2mS, f	ge 10~90% of	rated output			
12.Start up delay		Sec	Less than 6 Se										
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*7)			0.05% of rate						100	150	500	000	
2.Max. Load regulation (*13)			0.08% of rate	d output curr	ent.								
3.Ripple r.m.s. @ rated voltage. 3-Pl		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5	
4.Ripple r.m.s. @ rated voltage. 1-Ph	nase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8	
5.Temperature coefficient		PPM/°C	150V~600V										
6.Temperature stability				0V~100V 100PPM/°C from rated output current, following 30 minutes warm-up. 50V~600V 70PPM/°C from rated output current, following 30 minutes warm-up01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
			10V~100V mo	d lout over 8h odel: Less thar	nrs. interval fo n +/-0.25% of	llowing 30 mii rated output o	nutes warm-u current over 3	p. Constant lir 0 minutes foll	ne, load & tem owing power				
7. Warm-up drift			10V~100V mo 150V~600V: L	d lout over 8h odel: Less thar	nrs. interval fo n +/-0.25% of	llowing 30 mii rated output o	nutes warm-u current over 3	p. Constant lir	ne, load & tem owing power				
7. Warm-up drift  ANALOG PROGRAMMING AND MO	DNITORING (ISOLATED	 FROM 1	10V~100V mo 150V~600V: L THE OUTPUT)	d lout over 8h odel: Less thar Less than +/-0	nrs. interval fo n +/-0.25% of .15% of rated	llowing 30 mii rated output c output curren	nutes warm-u current over 3 t over 30 min	p. Constant lir 0 minutes follo utes following	ne, load & tem owing power power on.				
7. Warm-up drift  ANALOG PROGRAMMING AND MO 1. Vout voltage programming	DNITORING (ISOLATED	 FROM 1	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5	d lout over 8hodel: Less than Less than +/-0	nrs. interval fo n +/-0.25% of .15% of rated ser selectable	llowing 30 min rated output o output curren . Accuracy and	nutes warm-u current over 3 t over 30 min	p. Constant lir 0 minutes follo utes following 0.15% of rated	ne, load & tem owing power power on. Vout.				
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7. Warm-up drift  ANALOG PROGRAMMING AND MC 1.Vout voltage programming 2. Jout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6. Output voltage monitor (*15)  SIGNALS AND CONTROLS (ISOLAT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signa 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 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBAC RS232/485, Optional IEEE(*19)( 1. Vout programming accuracy (*15) 2. Jout programming accuracy (*15) 3. Vout programming resolution	Is (USB, LAN, *20) Interfaces)		10V-100V mc 150V-600V: II 150V	d lout over 8h del: Less than Less than +/-0 V or 0~10V, us V or 0	insterval for http://doi.org/10.15% of rated of	Illowing 30 min rated output curren coutput curren  Accuracy and  Incomposition  Accuracy and  Accuracy	nutes warm-u current over 30 min d linearity: +/- d linearity: +/- d linearity: +/- racy and linear acy and acy acy and acy acy acy acy acy acy acy acy acy acy acy	p. Constant lin O minutes following Lates following D.15% of rated D.4% of rated D.5% of D.5% of D.6% of	ne, load & tem owing power on.  Vout. lout.  Vout. lout.  Vout. lout.  If rated Vout.  If rated lout.  A winnum Voltag  Maximum Voltag  Maximum Voltag  Maximum Voltag  Dy Maximum  Pernote: 0-0.6  Maximum Voltag  Dy or open. Us  Soort. Local: 2-  Terent 100mA (i)  2 pulses 1m  L.  L.  Lurn-off.  Lication ports  Lication ports  d via the com	ge: 30V, Maxim Sink Current: / or short. Loc tage: 30V, Mai solv or open. shunted by 27 ximum high s. or the front p. p ports or the ec. or A/mSec munication p	10mA.  al: 2-30V or	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.	
7. Warm-up drift  ANALOG PROGRAMMING AND MC 1. Vout voltage programming 2. lout voltage programming 2. lout voltage programming 3. Vout resistor programming 4. lout resistor programming 4. lout resistor programming 6. Output voltage monitor 6. Output voltage monitor 7. Prower supply OK #1 signal 7. CV/CC signal 7. LOCAL/REMOTE Analog control 7. Programmed signal 7. ENABLE/DISABLE signal 7. Programmed signal 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal 10. 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 READBAC RS232/485, Optional IEEE(*19)(*1) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy 6. lout readback a	Is  EK (USB, LAN, *20) interfaces)		10V-100V mc 150V-600V:1  THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disatanalog progra Enable/Disatanalog progra Enable/Disatanalog progra Enable/Disatanalog progra Maximum leedge trigge By electrical 1 4~5V=OK, 0V Possible. Up the programmab communication programmab communication programmab communication profiles of up 0.05% of rate 0.002% of rate 0.002% of rate 0.002% of rate 0.2% of rated 0.2%	d lout over 8h odel: Less than Less than +/-0 V or 0~10V, us V or	ars. interval foo  n+/-0.25% of  1.15% of rated  ser selectable ser selectable ser selectable scale, user sel scale scale, user sel scale scale, user sel scale scale, user sel scale scal	llowing 30 min rated output curren  Accuracy and Accuracy	nutes warm-urrent over 3 tover 30 min  Il linearity: +/- Il linearity: +/- Il linearity: +/- Id linearity: +/- racy and linear	p. Constant lin O minutes following Lates following D.15% of rated D.4% of rated D.5% of D.15%	ne, load & tem owing power on.  Vout. lout.  Vout. lout.  Vout. lout.  Vout.  V	ge: 30V, Maxin Sink Current: / or short. Lot tage: 30V, Ma: er selectable 30V or open. shunted by 27 ximum high s.	10mA.  al: 2-30V or	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.  600	
7. Warm-up drift  ANALOG PROGRAMMING AND MC 1.Vout voltage programming 2. Jout voltage programming 4. Jout voltage programming 4. Lout resistor programming 4. Lout resistor programming 6. Output voltage monitor 6. Output voltage monitor 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 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 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBAC RS232/485, Optional IEEE(*19)(*1) 1. Vout programming accuracy (*15) 3. Wout programming resolution 4. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	Is  CK (USB, LAN, *20) Interfaces)		10V-100V mc 150V-600V: I THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disatanalog progra Maximum le edge trigge By electrical Vavore suppli 10 0.05% of rate 0.05% of rate 0.002% of rate 0.002% of rate 0.005% of rate	d lout over 8h dode! Less than Less than +/-0  V or 0-10V, us vers select.  V output monior. Open colle lole analog proamming controlle PS output lole PS ou	ars. interval for http://dx.com/dx.co	Illowing 30 min rated output curren coutput curren  Accuracy and  Incomposition  Accuracy and  Accuracy	nutes warm-u current over 30 min d linearity: +/- d linearity: +/- d linearity: +/- racy and linear acy and acy	p. Constant lin O minutes following Lates following D.15% of rated D.4% of rated D.5% of D.5% of D.6% of	ne, load & tem owing power on.  Vout. lout.  Vout. lout.  Vout. lout.  If rated Vout.  If rated lout.  A winnum Voltag  Maximum Voltag  Maximum Voltag  Maximum Voltag  Dy Maximum  Pernote: 0-0.6  Maximum Voltag  Dy or open. Us  Soort. Local: 2-  Terent 100mA (i)  2 pulses 1m  L.  L.  Lurn-off.  Lication ports  Lication ports  d via the com	ge: 30V, Maxim Sink Current: / or short. Loc tage: 30V, Mai solv or open. shunted by 27 ximum high s. or the front p. p ports or the ec. or A/mSec munication p	10mA.  al: 2-30V or	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.	

### **GENESYS™ 3.4kW SERIES SPECIFICATIONS**

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)		۷	10-340	20-170	30-112	40-85	60	80-42	100-34	150-22.5	300-11.5	600
2.Rated output current (*2)		A	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
1. Input voltage/freq. 3 phase, 3 w	ire + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	~265Vac, 47~ 2~460Vac, 47~ 2~528Vac, 47~ 1~265Vac, 47~	63Hz (Covers 63Hz (Covers	380/400/415\ 380/400/415/	140/460/480Va	ac)			
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		12.5A @ 200V 6.5A @ 380Va 6.5A @ 380Va	ac c	203446, 47	55112 (COVC13 2	200, 200, 230, 1	- Tovacy				
3.Power Factor (Typ)	1-Phase, 200V models:			0.94 @ 200/38	30Vac, rated o						-	
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)		Α	Less than 50A	1								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volta	age							
2.Max. Load regulation (*8)			0.01% of rate	d output volt	age +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											, ,,	,
6.Temperature stability								p. Constant lir	ne load 8. +a~	n		
7. Warm-up drift								wing power o		ih.		
· · · · · · · · · · · · · · · · · · ·	iro (*10)	٧			T .			T .		r	5	5
8.Remote sense compensation/w	ire (* 10)		2	2	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
11.Transient response time	No load (*12)	mS mS								rated output	3000 current. Outp	ut set-poin
12.Start up delay		Sec	10~100%, Lo		s than 1mS, fo	r models up to	and includir	ig 100V. 2mS, f	for models ab	ove 100V.		
			Less than 6 se	-C								
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate	d output curr	ent.							
2.Max. Load regulation (*13)			0.08% of rate	d output curr	ent.							
3.Ripple r.m.s. @ rated voltage. 3-	Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
I.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					inutes warm-u	ıp.			
5.Temperature stability								nutes warm-up p. Constant lir		nperature.		
7. Warm-up drift			10V~100V mo	odel: Less tha	n +/-0.25% of	rated output o	urrent over 3	0 minutes foll	owing power			
			150V~600V: L	ess than +/-u	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND M	MONITORING (ISOLATED	FROM	THE OUTPUT)									
	MONITORING (ISOLATED			V or 0~10V, us	ser selectable	. Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
1.Vout voltage programming	·		0~100%, 0~5					0.15% of rated 0.4% of rated I				
1. Vout voltage programming 2. lout voltage programming (*15	·		0~100%, 0~5 0~100%, 0~5	V or 0~10V, us	ser selectable.	. Accuracy and	l linearity: +/-	0.4% of rated I	lout.			
1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming	)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full	ser selectable scale, user sel	. Accuracy and ectable. Accur	l linearity: +/- racy and linea	0.4% of rated l rity: +/-0.5% c	lout. of rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	)	  	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full /10Kohm full	ser selectable scale, user sel scale, user sel	. Accuracy and ectable. Accur ectable. Accur	l linearity: +/- racy and linea	0.4% of rated I	lout. of rated 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%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	l linearity: +/- racy and linea	0.4% of rated l rity: +/-0.5% c	lout. of rated 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%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	l linearity: +/- racy and linea	0.4% of rated l rity: +/-0.5% c	lout. of rated 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%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	l linearity: +/- racy and linea	0.4% of rated l rity: +/-0.5% c	lout. of rated Vout.			
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 (ISOLA	)	   	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select	ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy: +/-0.5%.	l linearity: +/- racy and linea racy and linea	0.4% of rated   rity: +/-0.5% c rity: +/-0.5% c	lout. of rated Vout. of rated lout.	ge: 30V, Maxin	num Sink Curi	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 (ISOLA 1. Power supply OK #1 signal	)	    T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select	ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll	Accuracy and ectable. Accuracy: +/-0.5%. y: +/-0.5%. ector. Output	I linearity: +/- racy and linea racy and linea On: On. Outp	0.4% of rated   rity: +/-0.5% c rity: +/-0.5% c	lout. of rated Vout. of rated lout.	ge: 30V, Maxin		rent: 10mA.
1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming 4. lout resistor programming 6. Output voltage monitor 6. Output current monitor (*15) 5. IGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	TED FROM THE OUTPU	    T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 Power supply CV/CC Monito	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select v output mon or. Open colle	ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll ector. CC mode	Accuracy and ectable. Accuracy accuracy: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mode	I linearity: +/- racy and linear racy and linear on: On. Outp	0.4% of rated of rity: +/-0.5% of rity:	lout. of rated Vout. of rated lout. aximum Volta OV, Maximum	Sink Current:	10mA.	
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	TED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	V or 0~10V, us /10Kohm full /10Kohm full VV, user select VV, user select v output mon or. Open colle ele analog pro	ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co	Accuracy and ectable. Accure ectable. Accure ectable. Accure y: +/-0.5%. y: +/-0.5%. ector. Output ector. CV modentrol by electir	I linearity: +/- racy and linea racy and linea On: On. Outp e: Off. Maximurical signal or	0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. R	lout. of rated Vout. of rated lout. of rated lout. aximum Volta ov, Maximum emote: 0~0.6	Sink Current: V or short. Loc	10mA. :al: 2~30V or c	pen.
1.Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming (*15 5. Output voltage monitor 6. Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	TED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full W, user select W, user select output mon or. Open colle le analog pro	ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll ector. CC mode gramming co ol monitor sig	Accuracy and ectable. Accure ector. 5%.  ector. Output ector. Output ector. Output ector. Ov modintrol by electinal. Open colle	I linearity: +/- racy and linear racy and linear on: On. Outpe: Off. Maximirical signal or ector. Remote:	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c rity: +/-0.5% c rity: -/-0.5% c	lout. of rated Vout. of rated lout. aximum Volta OV, Maximum emote: 0~0.6' Maximum Vo	Sink Current: V or short. Loc Itage: 30V, Ma	10mA. cal: 2~30V or c ximum Sink Cu	pen.
1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming (*15 5. Output voltage monitor 6. Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	TED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select v output mon or. Open colle ele analog pro amming contr	ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll ector. CC mode orgramming co ol monitor sig by electrical si	Accuracy and ectable. Accure ectable. Accure ectable. Accure ectable. Accure ectable. Accure ectable. Accure ector. 5%.  ector. Output ector. Output ector. Output ector. Ov modintrol by electinal. Open colleginal or dry co	On: On. Outper Off. Maximirical signal or ector. Remote: intact. 0~0.60	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c rity: +/-0.5% c rity: -/-0.5% c	out.  of rated Vout.  of rated lout.  aximum Volta  ov, Maximum emote: 0~0.6'  Maximum Vo  ov or open. Us	Sink Current: V or short. Loo Itage: 30V, Ma: ser selectable	10mA. cal: 2~30V or c ximum Sink Cu	pen.
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal	ACK (USB, LAN, (120) Interfaces) 6) 5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~	V or 0~10V, us V or 0	ser selectable scale, user sel itor. Open coll ictor. CC mode gramming co sol monitor sig by electrical si bable signals. I sub electrical si sable signals. I sub voltage = ninimum. Tr, f6V/2~30V or d pedance)=Fail units in Maste ts. Refer to ins inected in Dai a programm Resistance ra e and Output f ne front panel can be stored  30 age ent+0.2% of ra ltage ltreet tage	Accuracy and ectable. Accure extended enter e	On: On. Outpercondinates of the control of the con	0.4% of rated rity: +/-0.5% or rity: -0.6% or short, 2~30: 0~0.6% or short, 2~30: 0~0.0% or short, 2~30: 0~0.0	iout.  If rated Vout.  If rated Vout.  If rated Iout.  It rated Iout.  It rated Iout.  It rated Iout.  If rate	Sink Current: V or short. Loc Itage: 30V, Ma: ser selectable 30V or open. Shunted by 27 aximum high is.  or the front p. n ports or the lec. or A/mSec	10mA.  cal: 2~30V or cx ximum Sink Ct logic.  7V zener)  level input  anel. front panel Programmir orts or by the	ppen.  = 5V positives  = g via the  tront panel

### **GENESYS™ 5kW SERIES SPECIFICATIONS**

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		٧	10-300	20-230	30-170	40-123	50	60	80	100-30	150-34	200-23	300-17	400-13	500	600
2.Rated output current (*2)		A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
							'~63Hz (Co									
1.Input voltage/freq. 3 phase, 3 wii	re + Ground (*4)		3-Phase,	400V mod	lels: 342~4	460Vac, 47	7~63Hz (C	overs 380	/400/415\	/ac)						
					lels: 342~!	528Vac, 47	7~63Hz (C	overs 380/	400/415/4	40/460/48	30Vac)					
	3-Phase, 200V models:		17.5A @ 2				-									
100% load	3-Phase, 400V models:		9.2A @ 38													
3.Power Factor (Typ)	3-Phase, 480V models:		9.2A @ 38		rated out	tput powe										
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	91	91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		A	Less than		- 21	) )	, ,0		) )	) )	21	) )	1 12	12	12	12
					I	1		I								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out voltag											
2.Max. Load regulation (*8)			0.01% of	rated out	out voltag	e +5mV										
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	voltage, f	following	30 minute	s warm-u	p.						
6.Temperature stability			0.01% of	rated Vou	t over 8hr	s interval	following	30 minute	es warm-u	p. Constar	nt line, loa	d & temp.				
7. Warm-up drift			Less than	0.05% of	rated out	put voltac	ge+2mV ov	er 30 min	utes follo	wing pow	er on.	•				
8.Remote sense compensation/wii	re (*10)	٧	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
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
11() I )own-prog response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
										r a load cl						
11.Transient response time		mS	10~100%	, Local sei	nage to re ise. Less t	han 1mS	for model	or its rated s up to and	d includin	or a Ioad ci g 100V. 2n	nS, for mo	dels abov	neu outpl e 100V.	it current.	output \$	er-hoiut:
12.Start up delay		Sec	Less than					o um			.,					
CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out currer											
2.Max. Load regulation (*13)			0.08% of	rated out	put currer	nt.										
3.Ripple r.m.s. @ rated voltage. B.W	/ 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5 T		PPM/°C	10V~100	/ 100PI	PM/°C froi	m rated o	utput curr	ent, follov	ving 30 m	inutes war	m-up.					
5.Temperature coefficient		PPIVI/°C	150V~60	0V 70PPI	M/°C from	rated out	tput curre	nt, followi	ng 30 mir	utes warn	n-up.					
6.Temperature stability			0.01% of	rated lout	over 8hrs	. interval	following	30 minute	s warm-u	p. Constar	nt line, loa	d & temp	erature.			
			10V~100	/ model: L	ess than +	⊦/-0.25% c	of rated ou	tput curre	ent over 3	0 minutes	following	power or	١.			
7. Warm-up drift										utes follov		•				
											31					
ANALOG PROGRAMMING AND M	ONITORING (ISOLATED		r													
1.Vout voltage programming										0.15% of ra						
2.lout voltage programming (*15)			0~100%,	0~5V or 0	~10V, use	r selectab	le. Accura	cy and line	earity: +/-	0.4% of rat	ted lout.					
3.Vout resistor programming			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linea	rity: +/-0.5	% of rate	d Vout.				
4.lout resistor programming (*15)			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linea	rity: +/-0.5	% of rate	d lout.				
5.Output voltage monitor			0~5V or 0	~10V, use	r selectab	le. Accura	acy: +/-0.5	% of rated	Vout.							
6.Output current monitor (*15)			0~5V or 0	~10V, use	r selectab	le. Accura	acy: +/-0.5	% of rated	l lout.							
CICHALC AND CONTROL C (ICOLAT	FED FROM THE OUTDU	-\														
SIGNALS AND CONTROLS (ISOLAT	IED FROM THE OUTPUT															
1. Power supply OK #1 signal				· · · ·					<del></del>	ut Off: Off					k Current	: 10mA.
2. CV/CC signal										ım Voltag						
3. LOCAL/REMOTE Analog control										dry contac						
4. LOCAL/REMOTE Analog signal							-			On. Local:			-		ink Currer	nt: 10mA.
5. ENABLE/DISABLE signal					<del></del>					or short,		•				
6. INTERLOCK (ILC) control			Enable/D	isable PS	output by	electrical	l signal or	dry conta	ct. Remot	e: 0~0.6V	or short. L	ocal: 2~30	V or open			
7. Programmed signals			Two oper	drain pro	ogrammal	ble signal:	s. Maximu	m voltage	25V, Max	imum sink	current 1	00mA (Sh	unted by	27V zener	)	
8. TRIGGER IN / TRIGGER OUT signa	als									input vo				h level ir	nput = 5\	/
									Maximun	n, Min de	lay betwe	een 2 pul	ses 1ms.			
9. DAISY_IN/SO control signal							dry conta	ct.								
10. DAISY_OUT/PS_OK #2 signal			4~5V=OI	(, 0V (500c	ohm impe	dance)=F	ail									
FUNCTIONS AND FEATURES			Possible	Un to 4 id	entical	its in Mac	ter/Slave	node Dof	er to inst-	uction ma	nual For-	more nou	er please	consult wi	th Factor	v
FUNCTIONS AND FEATURES			i ossibie.						ei to iiistr	uction ma	riuai. FUÍ Í	note pow	er piease	consult Wi	ui ractor	у.
1. Parallel operation			Doceth I.	i wo ideni			-									
Parallel operation     Series operation			Possible.	I'								- cc				
Parallel operation     Series operation     Daisy chain			Power su	pplies car												
Parallel operation     Series operation     Daisy chain     Constant power control			Power su Limits the	e output p	ower to a	proggran	nmed valu	ie. Progra	mming vi	the com	municatio	n ports or				
Parallel operation     Series operation     Daisy chain			Power su Limits the Emulates	e output p series res	ower to a istance. R	proggrar esistance	nmed valu range: 1~	ie. Prograi 1000mΩ.	mming vi Programn	the comi	municatio e commu	n ports or nication p	orts or th	e front pa		
Parallel operation     Series operation     Daisy chain     Constant power control			Power su Limits the Emulates Program	e output p series res mable Ou	oower to a istance. R tput rise a	proggrar esistance nd Outpu	nmed valu range: 1~	ie. Prograi 1000mΩ.	mming vi Programn	the com	municatio e commu	n ports or nication p	orts or th	e front pa		a the
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control     Slew rate control			Power su Limits the Emulates Program commun	e output p series res mable Ou ication po	oower to a istance. R tput rise a orts or the	proggrar esistance nd Outpu front pan	nmed valu range: 1~ it fall slew el.	ie. Prograi 1000mΩ. rate. Prog	mming vi Programn ramming	a the comi ning via th range: 0.0	municatio e commu 001~999.9	n ports or nication p 99 V/mSec	orts or th	e front pa ec. Progra	mming vi	
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control			Power su Limits the Emulates Program commun	e output p series res mable Ou ication po	oower to a istance. R tput rise a orts or the	proggrar esistance nd Outpu front pan	nmed valu range: 1~ it fall slew el.	ie. Prograi 1000mΩ. rate. Prog	mming vi Programn ramming	the comi	municatio e commu 001~999.9	n ports or nication p 99 V/mSec	orts or th	e front pa ec. Progra	mming vi	
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control     Sew rate control     Arbitrary waveforms		  	Power su Limits the Emulates Program commun Profiles c	series res mable Ou ication po f up to 10	oower to a istance. R tput rise a orts or the 0 steps ca	proggrar esistance ind Outpu front pan n be store	nmed valu range: 1~ it fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming via Programn ramming . Activation	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAC RS232/485, Optional IEEE(*19)(	(*20) Interfaces)	   V	Power su Limits the Emulates Program commun Profiles c	series res mable Ou ication po f up to 10	oower to a istance. R tput rise a orts or the 0 steps ca	proggran esistance nd Outpu front pan n be store	nmed valu range: 1~ it fall slew el.	ie. Prograi 1000mΩ. rate. Prog	mming vi Programn ramming	a the comi ning via th range: 0.0	municatio e commu 001~999.9	n ports or nication p 99 V/mSec	orts or th	e front pa ec. Progra	mming vi	
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control     Sew rate control     Arbitrary waveforms	(*20) Interfaces)	  	Power su Limits the Emulates Program commun Profiles c	series res mable Ou ication po f up to 10	oower to a istance. R tput rise a orts or the 0 steps ca	proggran esistance nd Outpu front pan n be store	nmed valu range: 1~ it fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming via Programn ramming . Activation	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAC RS232/485, Optional IEEE(*19)(	(*20) Interfaces)	   V	Power su Limits the Emulates Program commun Profiles co 10 0.05% of	series res mable Ou ication po f up to 10	oower to a istance. R tput rise a orts or the 0 steps ca 30 put voltag	proggran esistance nd Outpu front pan n be store 40	nmed valu range: 1~ it fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAC RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16)	(*20) Interfaces)	   V	Power su Limits the Emulates Program commun Profiles c 10 0.05% of 0.1% of a	series res mable Ou ication po f up to 10 20 rated out	oower to a istance. R tput rise a orts or the 0 steps ca 30 put voltag	proggran esistance nd Outpu front pan n be store 40 Je t+0.2% of	nmed valu range: 1~ at fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBA RE3232/485, Optional IEEE(*19)( 1. Vout programming accuracy (*16 2. lout programming accuracy (*16 3. lout programming accuracy (*	(*20) Interfaces)	   V	Power su Limits the Emulates Program commun Profiles co 10 0.05% of 0.1% of a 0.002% o	series res mable Ou ication po f up to 10 20 rated outp	to ower to a istance. R tput rise a orthe osteps ca a a out voltage out curren	proggran esistance nd Outpu front pan n be store 40 ge t+0.2% of	nmed valu range: 1~ at fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAC RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. lout programming accuracy (*15 3. Vout programming resolution 4. lout programming resolution	(*20) Interfaces)	   V	Power su Limits the Emulates Program Profiles c 10 0.05% of 0.1% of a 0.002% o 0.002% o	series res mable Ou ication po f up to 10 20 rated out ctual outp f rated ou	istance. R tput rise a rtts or the 0 steps ca 30 put voltage out current tput voltat tput currer	proggrar esistance nd Outpu front pan n be store 40 ge t+0.2% of	nmed valu range: 1~ at fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAG RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	(*20) Interfaces)		Power su Limits th Emulates Program Profiles co 10 0.05% of 0.1% of a 0.002% o 0.002% o 0.005% of	e output p series res mable Ou ication po f up to 10 20 rated outp ctual outp f rated ou rated out	oower to a istance. R tput rise a orts or the orts or the 0 steps ca 30 put voltage out curren tput voltat tput curre put voltage put voltage put voltage out curre orts of the orts of th	proggrar esistance ind Outpu front pain n be store 40 ge t+0.2% of ige ent ge	nmed valu range: 1~ at fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.
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 READBAR RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. Jout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy (*15)	*20) Interfaces)  (i)		Power su Limits th Emulates Program commun Profiles c  10  0.05% of 0.1% of a 0.002% o 0.002% o 0.05% of 0.2% of r.	e output processes series resumable Outcation pofunction to transcript output of the series resumable output outpu	ower to a istance. R tput rise a trts or the or the of steps ca 30 put voltage out curren tput voltat tput curren tut voltagut current voltagut current voltagut current voltagut current voltagut current	proggrar esistance nd Outpu front pan n be store 40 ge t+0.2% of age	nmed valu range: 1~ it fall slew el. ed in 4 me 50	ne. Prograi 1000mΩ. rate. Prog mory cells 60  put currer	mming vi. Programn ramming . Activatio	a the comining via the range: 0.0 on by comi	municatio le commu 001~999.s mand via 1 150	n ports or nication p 99 V/mSec the comm	oorts or th	e front pa ec. Progra ports or b	mming vi	600
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 READBAG RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	(*20) Interfaces) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Power su Limits th Emulates Program Profiles co 10 0.05% of 0.1% of a 0.002% o 0.002% o 0.005% of	e output processes series resumable Outcation por fup to 10  20  rated output and output for a function output function output for a function output function	oower to a istance. R tput rise a orts or the orts or the 0 steps ca 30 put voltage out curren tput voltat tput curre put voltage put voltage put voltage out curre orts of the orts of th	proggrar esistance ind Outpu front pain n be store 40 ge t+0.2% of ige ent ge	nmed valu range: 1~ at fall slew el. ed in 4 me	ie. Prograi 1000mΩ. rate. Prog mory cells	mming vi Programn ramming . Activatio	a the comming via the range: 0.0	municatio le commu 001~999.9 mand via	n ports or nication p 99 V/mSec the comm	oorts or the c. or A/mS nunication	e front pa ec. Progra ports or b	mming vi	nt panel.

### GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

3. Over - voltage programming ra 4. Over-voltage programming ac 5. Output under voltage limit (UV 6. Over temperature protection			Output ch													
2.Over-voltage protection (OVP) 3.Over -voltage programming ra 4. Over-voltage programming ac 5.Output under voltage limit (UV 6.Over temperature protection			User prese	ut-down etable. Re	when poveset by AC	ver suppl input rec	y changes ycle in auto	mode fro ostart mo	m CV or Po de, by Pov	ower Limit ver Switch	to CC mo , by OUTP	de or fron UT buttor	n CC or Po n, by rear p	ver Limit t anel or by	o CV mode communic	cation.
4. Over-voltage programming ac 5. Output under voltage limit (UV 6. Over temperature protection			Output sh	ut-down	Reset by	AC input	recycle in a	utostart	mode, by	OUTPUT b	utton, by	rear panel	or by con	munication	n.	
5.Output under voltage limit (UV 6.Over temperature protection	nge	٧	0.5~12	1~24	2~36	2~44.1	55-55.125	5~66.15	5 5~88.2	5~110.2	5 5~165.3	7 5~220.5	5~330.7	5~441	5~551.25	5~661
6.Over temperature protection	curacy		+/-1% of ra	ated outp	ut voltage	e										
	L)									orogramn	ning. Prese	t by front	panel or o	ommunic	ation port.	
			Shuts dow					art mode.								
7. Output under voltage limit (U\	/L)		Prevents a	djustme	nt of Vout	below lin	nit.									
8. Output under voltage protecti	on (UVP)		Prevents a mode, by I	djustme Power Sv	nt of Vout vitch, by O	below lin UTPUT b	nit. P.S outp atton, by re	out turns ear panel	Off during or by com	under vo municatio	n.	dition. Res	et by AC ii	nput recyc	le in autos	tart
FRONT PANEL																
1.Control functions			Multiple o													
			Vout/lout/													
			OVP/UVL/													
			Protection													
			Communi				of LAN,IEE	E,RS232,F	S485,USB	or Option	al commu	nication i	nterface.			
			Output ON				(0 10		ID I							
			Communi													
			Analog Co Analog Mo								ok/ IUK pr	ogrammir	ig			
2.Display			Vout: 4 dic							J 3 V/ I U V.						
z.Dispidy			lout: 4 dig													
3.Front Panel Buttons Indication			OUTPUT C							N CONFIG	LIRATION	SYSTEM	SECLIENC	R		
5. TOTE I dife! Buttons indication	,														D	
4. Front Panel Display Indication	5		Voltage, C (communi	cation), F	RS/USB/LA	N/IEEE co	mmunicat	ion, Trigg	er, Load/S	tore Cell.	s, LFP, Aut	ostart, Sai	etstart, FC	IGDACK V/I	, kemote	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 10	00% load												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% R	H (no cor	ndensatio	n).										
4.Storage humidity		%	10~95% RI	H (no cor	ndensation	n).										
5.Altitude (*17)			Operating	: 10000ft	(3000m),	output cı	rrent dera	ting 2%/1	00m or Ta	derating 1	°C/100m	bove 200	0m. Non c	perating:	10000ft (12	2000m).
MECHANICAL																
1.Cooling			Forced air	cooling l	oy interna	l fans. Air	flow direc	tion: from	Front par	el to pow	er supply	rear				
2.Weight		kg	2.7kW/3.4l	kW - Less	than 6.25	kg.			5kW - L	ess than 7.	5kg.					
3.Dimensions (WxHxD)		mm	W: 423, H W: 423, H	l: 43.6, [ l: 43.6, [	D: 441.5 (\ D: 553.2 (I	Nithout ncluding	busbars a busbars	nd busb and bus	ars cover bars cove	), er) (Refer	to Outlin	e drawin	g).			
4.Vibration			MIL-810G,	method	514.6, Pro	cedure I,	est condit	ion Anne	x C - 2.1.3.							
5.Shock			Less than 2	20G, half	sine, 11ms	Sec. Unit	s unpacke	d.								
SAFETY/EMC																
1. Applicable standards:	Safety		UL61010-1	, CSA22.2	2 No.61010	)-1, IEC61	010-1, EN61	010-1.								
1.1. Interface classification			Vout ≤40V 60≤ Vout≤	Models: ≤ 600V N	Output, J	1,J2,J3,J4 tput, J8 (	J5,J6,J7,J8 ense) are l	(sense) ar	nd ,J9 (con s, J1,J2,J3,	nmunicati 14,J5,J6,J7	on option and J9 (co	s) are SEL\	'. tion optio	ns) are SEI	.V	
			Vout ≤40\													
1.2 Withstand voltage			60V≤Vout Output - 0	±≤100V N	/lodels: In	put - Ou	put: 4242	VDC 1mi	n, Input -	SELV: 42			out - SEL\	: 850VD0	1min,	
			100 <vout Output - 0</vout 	≤600V N Ground:	Models: In 2500VDC	put - Ou 1min, Ir	put: 4242 put - Grou	VDC 1mi ind: 2835	n, Input - SVDC 1mi	SELV: 42 n.	42VDC 1	min, Outp	out - SEL\	/: 1275VD	C 1min,	
1.3 Insulation resistance			100Mohm	at 25°C,	70%RH. O	utput to	Ground 50	00VDC								
2.Conducted emmision			IEC/EN612	04-3 Ind	ustrial env	ironmen	, Annex H	table H.1	FCC Part	15-A, VCCI	-A.					
			IEC/EN612							_	_					
3.Radiated emission	EMC(*18)		IEC/EN612								, ,					

Unless otherwise noted, specifications are warranted over the ambient temperature range of  $0^\circ$  to  $50^\circ$  C.

- 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: GSkW: Derate SA/1"C above 40°C G3.4kW: Derate SA/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, Ices than 0.2mSec.
  7: 3-Phase 200V models: At 200Vac, 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-913IC (1:1) probe. For 300~60V 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, with rated, resistive load.
  13: For load voltage change, equal to the unit voltage arating, constant input voltage.
  13: For load voltage change, equal to the unit voltage arating, 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.
  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: For 10V model only: For 3-Phase 200V e

### **GENESYS™ GSP10kW SERIES SPECIFICATIONS**

OUTPUT RATING	GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
1.Rated output voltage(*1)	V	10-1000	20-300	30-340	40-230	50	60	80	100-100	150-68	200-30	300-34	400-26	500-20	600
2.Rated output current (*2)	A	1000 (*3)	500	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 2 Dhasa	20	30	40	50 ∼63Hz (Co	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		<del></del>				~63Hz (Со 7~63Hz (Со			26)						
1.input voitage/freq. 5 phase, 5 wire + Ground (*4)		$\overline{}$				'~63Hz (Cc				0\/2.5\					
3-Phase, 200V models:		35A @ 20		1613. 342~.	20VaC, 47	~03112 (CC	vers 300/-	+00/413/4	40/400/40	Ovac)					
2. Maximum Input current at	⊣	18.4A @ 3		-			-				-	-			
100% load 3-Phase, 480V models:	-1	18.4A @ 3												_	
3.Power Factor (Typ)				, rated out	put powe	er.									
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)		91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)	Α	Less than	100A												
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				out voltag		30	60	60	100	130	200	300	400	300	600
2.Max. Load regulation (*8)				out voltag											
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 and noise (p-p, 20Min2) ( 9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C					ollowing 3				20	1 73	00	_ 00	00	100
6.Temperature stability						following 3			-	t line load	1 & temn				
7. Warm-up drift						e+2mV ov					. a cemp.				
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
Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time: No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
·		Time for	output vo	ltage to re	cover wit	hin 0.5% o	f its rated	output fo	r a load ch	ange 10~	90% of rat	ed output			
11.Transient response time	mS	10~100%	, Local ser	nse. Less t	nan 1mS, f	for models	up to and	lincluding	g 100V. 2m	S, for mod	lels above	100V.			
12.Start up delay	Sec	Less than	7 Sec	-						-			-		
CONSTANT CURRENT MODE															
1.Max. Line regulation (*7)		0.05% of	rated out	out curren	t.										
2.Max. Load regulation (*13)				out curren							-				
3.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C)	_	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
		10V~100\	/ 100PF	PM/°C fror	n rated oເ	itput curre	nt, follow	ing 30 mii	nutes war	n-up.					
5.Temperature coefficient	PPM/°C	150V~60				put currer									
6.Temperature stability		0.01% of	rated lout	over 8hrs	interval f	ollowing 3	30 minute:	s warm-up	. Constan	t line, load	l & tempe	rature.			
7 14/		10V~100\	/ model: L	ess than +	-/-0.25% c	f rated ou	tput curre	nt over 30	minutes 1	ollowing	power on.				
7. Warm-up drift		150V~60	0V: Less th	an +/-0.15	% of rate	d output c	urrent ove	r 30 minu	tes follow	ing powei	on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATE	) FROM T	HE OLITPI	IT)												
1.Vout voltage programming				~10V usei	selectabl	le. Accurac	v and line	arity: +/-0	15% of ra	ted Vout					
2.lout voltage programming (*15)	T					le. Accurac									
3.Vout resistor programming						electable.					Vout				
4.lout resistor programming (*15)						electable.									
5.Output voltage monitor						cy: +/-0.59			10,117 013	70 01 14164	1000				
6.Output current monitor (*15)						icy: +/-0.59									
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPL	<del></del>	T_													
1. Power supply OK #1 signal						ollector. O								Current: 1	0mA.
2. CV/CC signal						de: On. CV								0.5	
3. LOCAL/REMOTE Analog control						control by									t. 10 A
4. LOCAL/REMOTE Analog signal						ignal. Ope								iiik Curren	ı: IUMA.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	_					signal or o									
7. Programmed signals						signal or o s. Maximur									
						= 0.8V,Mii								nut = 5\/ r	nositive
8. TRIGGER IN / TRIGGER OUT signals		edge tri	gger: tw=	=10us mii	nimum. T	= 0.6 v, Mil r,Tf=1us N	Лахітит	, Min del	ay betwe	en 2 puls	ses 1ms.	iigi	. 10 461 1114	.a. – 3v þ	, J3111VE
9. DAISY_IN/SO control signal						dry conta									
10. DAISY_OUT/PS_OK #2 signal				hm impe											
ELINCTIONS AND EEATLIDES															
FUNCTIONS AND FEATURES		Tura : -1 -	tical CCP	unite F-	nore = -	or plases	oncule · · ·	th Eneter	,						
1. Parallel operation					nore pow	er please o	onsult wi	th Factory							
Parallel operation     Series operation		Consult v	vith Facto	ry						nd turn -	ff				
Parallel operation     Series operation     Daisy chain		Consult v Power su	vith Facto pplies car	ry i be conne	cted in D	aisy chain	to synchro	onize their	r turn-on a			ha front -	anel		
Parallel operation     Series operation     Daisy chain     Constant power control		Consult v Power su Limits the	vith Facto pplies car e output p	ry be conne ower to a	cted in Da	aisy chain nmed valu	to synchro e. Progran	onize their	turn-on a	nunication	ports or t				
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control		Consult v Power su Limits the Emulates	vith Facto pplies car e output p series res	ry be conne ower to a istance. R	cted in Da proggran	aisy chain nmed valu range: 1~	to synchro e. Progran 1000mΩ. F	onize their nming via Programm	turn-on a the comn	nunicatior e commur	ports or t nication po	orts or the	front pan		the
Parallel operation     Series operation     Daisy chain     Constant power control		Power su Limits the Emulates Programi	vith Facto pplies car e output p series res mable Out	ry be conne ower to a istance. R	ected in Da proggran esistance nd Outpu	aisy chain nmed valu range: 1~ t fall slew i	to synchro e. Progran 1000mΩ. F	onize their nming via Programm	turn-on a the comn	nunicatior e commur	ports or t nication po	orts or the	front pan		the
Parallel operation     Series operation     Daisy chain     Constant power control     Output resistance control		Consult v Power su Limits the Emulates Programs commun	vith Facto pplies car e output p series res mable Out ication po	ry  be connected to a listance. Reput rise a list or the	proggran proggran esistance nd Outpu front pan	aisy chain nmed valu range: 1~ t fall slew i	to synchro e. Progran 1000mΩ. F rate. Progr	onize their nming via Programm ramming r	turn-on a the comn ling via the range: 0.00	nunication commur 001~999.9	ports or to nication po 9 V/mSec.	orts or the or A/mSec	front pan c. Program	ıming via 1	
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,		Consult v Power su Limits the Emulates Programs commun	vith Facto pplies car e output p series res mable Out ication po	ry  be connected to a listance. Reput rise a list or the	proggran proggran esistance nd Outpu front pan	aisy chain nmed valu range: 1~î t fall slew i el.	to synchro e. Progran 1000mΩ. F rate. Progr	onize their nming via Programm ramming r	turn-on a the comn ling via the range: 0.00	nunication commur 001~999.9	ports or to nication po 9 V/mSec.	orts or the or A/mSec	front pan c. Program	ıming via 1	
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, RS232/485, Optional IEEE (*19)(*20) Interfaces)		Consult v Power su Limits the Emulates Programs commun Profiles o	vith Facto pplies car e output p series res mable Out ication po f up to 10	be connected to be connected to a listance. Respect to a listance or the control of the control	proggran esistance and Outpu front pan n be store	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16)	   V	Consult v Power su Limits the Emulates Programs commun Profiles o  10  0.05% of	vith Facto pplies car e output p series res mable Out ication po f up to 10  20 rated out	be connected by the con	proggran esistance and Outpu front pan n be store	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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, RS232/485, Optional IEEE (*19)(*20) Interfaces)		Consult v Power su Limits the Emulates Programi commun Profiles o  10  0.05% of 0.3% of ra	with Facto pplies care e output p series res mable Out ication po f up to 10  20  rated outp ated outp	be connected to be connected to a listance. Respect to a listance or the control of the control	proggran esistance nd Outpu front panin be store 40	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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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, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Iout programming resolution 4. Iout programming resolution 4. Iout programming resolution		Consult v Power su Limits the Emulates Programs commun Profiles o  10  0.05% of 0.3% of rs 0.002% o 0.002% o	vith Facto ppplies car e output p series res mable Out ication po f up to 10  20  rated outp ated outp f rated ou f rated ou f rated ou f rated ou	be connected by the con	proggran esistance nd Outpu front pan n be store  40 e	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Yout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Yout programming resolution	V	Consult v Power su Limits the Emulates Programs commun Profiles o  10  0.05% of 0.3% of rs 0.002% o 0.002% o 0.05% of	vith Facto pplies car e output p series res mable Out ication po f up to 10  20 rated outp ated outp f rated ou f rated ou	be connected by the con	proggran esistance nd Outpu front pan n be store  40 e	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	V	Consult v Power su Limits the Emulates Programs commun Profiles o  10  0.05% of 0.3% of rs 0.002% o 0.002% o 0.05% of	vith Facto pplies car e output p series res mable Out ication po f up to 10  20 rated outp ated outp f rated ou f rated ou	a be connected to a sistance. Respectively a sistance. Respectively a sistance and a sistance an	proggran esistance nd Outpu front pan n be store  40 e	aisy chain nmed valu range: 1~ t fall slew i el. d in 4 mer	to synchro e. Progran 1000mΩ. F rate. Progr nory cells.	onize their nming via Programm ramming r Activation	turn-on a the comn ling via the range: 0.00	nunicatior commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec	front pand c. Program ports or by	the front	panel.
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, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback	V	Consult v Power su Limits the Emulates Programs commun Profiles o  0.05% of 0.3% of r 0.002% o 0.002% o 0.002% o 0.2% of r 0.2% of r	vith Facto pplies car e output p series res mable Out ication po f up to 10  20 rated outp f rated ou f rated ou rated out rated ou rated out rated out rated out rated out rated out	a be connected to a sistance. Respectively a sistance. Respectively a sistance and a sistance an	proggran esistance nd Outpu front pan n be store  40 e ge nt	aisy chain nmed valu range: 1~ t fall slew r el. d in 4 mer	to synchroe. Program 1000mΩ. F rate. Program nory cells.	ponize their nming via Programm amming r Activation	turn-on a the comn ing via the ange: 0.00 n by comn	nunicatior e commur 001~999.9 nand via t	n ports or t nication po 9 V/mSec. he commu	orts or the or A/mSec unication p	front panic. Program	the front	600

### GENESYS™ GSP15kW SERIES SPECIFICATIONS

		40.4800					40.000								
OUTPUT RATING  1.Rated output voltage(*1)	GSP V	10-1500 10	20-750	30-510 30	40-375	50-300	60-255	80-195 80	100-150	150-102 150	200-75	300-51 300	400-39	300-51 300	600-25.5
2.Rated output voitage(*1)	A	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	51	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	15.3	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	
INPUT CHARACTERISTICS	_ v	3-Phase, 2							100	150	200	300	400	300	600
1.Input voltage/freg. 3 phase, 3 wire + Ground (*4)		3-Phase, 4							ac)						
impactorage, neqrophase, since recount (1,		3-Phase, 4								OVac)					
3-Phase, 200V models	:	52.5A @ 20	0Vac												
2. Maximum Input current at 100% load 3-Phase, 400V models		27.6A @ 38													
3-Phase, 480V models		27.6A @ 38													
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)		0.94 @ 200	/380Vac, 90				91	91	01	01	01	92	92	01	02
5.Inrush current (*6)	70 A	89 (*21) Less than		91	91	91	91	91	91	91	91	92	92	91	92
6.AC line phase imbalance	%	< 5%	.50/1												
•	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
CONSTANT VOLTAGE MODE	_					50	00	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of ra													
2.Max. Load regulation (*8)	mV	0.01% of ra	rtea outp	ut voitage 75	75 75	75	75	80	90	120	200	200	400	450	400
3.Ripple and noise (p-p, 20MHz) (*9)	mV mV	8	10	12	12	12	12	15	15	20	45	60	80	80	480 100
4.Ripple r.m.s. 5Hz~1MHz (*9) 5.Temperature coefficient	PPM/°C	50PPM/°C								20	45	60	80	80	100
6.Temperature stability		0.01% of ra								t line load	1 & temn				
7. Warm-up drift		Less than (									a de terrip.				
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
Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time: No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time	mS	Time for o											t current.	Output se	t-point:
·		10~100%,		se. Less th	an 1m5, fo	or models	up to and	including	100V. 2m	S, for mod	dels above	100V.			
12Start up delay	Sec	Less than 7	sec												
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.05% of ra	ated outp	ut current											
2.Max. Load regulation (*13)		0.08% of ra		1				,							,
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (*14		2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA 25°C	) mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5.Temperature coefficient	PPM/°C	10V~100V							utes warr						
		150V~600									104				
6.Temperature stability		0.01% of ra													
7. Warm-up drift		150V~600													
[					o or racea	output c		. 50		ng ponte					
ANALOG PROGRAMMING AND MONITORING (ISOLATE										114					
1.Vout voltage programming		0~100%, 0													
2.lout voltage programming (*15) 3.Vout resistor programming		0~100%, 0									Vout				
4.lout resistor programming (*15)		0~100%, 0													
5.Output voltage monitor (*23)		0~5V or 0							ity. +/-0.5	o or rated	iout.				
6.Output current monitor (*15) (*23)		0~5V or 0~													
,	IT\	-													
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPI		D	-1		0	U+ O-		2- 0-4	+ 044 044	Mandan	. \/- +	201/ 14	C:I	C	10 4
1. Power supply OK #1 signal 2. CV/CC signal		Power sup										ουν, Maxi	mum Sink	current:	IUMA.
3. LOCAL/REMOTE Analog control								. ıvıaxııııu	11 voitage			k Curront			
4. LOCAL/REMOTE Analog control								ianal or d				k Current:	10mA.	/ or onen	
5. ENABLE/DISABLE Signal					nonitor si				ry contact	. Remote	0~0.6V o	r short. Lo	: 10mA. cal: 2~30\		
<u> </u>		Enable/Di				gnal. Ope	n collector	. Remote:	ry contact On. Local:	. Remote Off. Maxi	0~0.6V or num Volta	r short. Lo ige: 30V, N	: 10mA.  cal: 2~30\  aximum S		
6. INTERLOCK (ILC) control			able PS o	utput by	electrical	gnal. Ope	n collector	. Remote: t. 0~0.6V	ry contact On. Local: or short, 2	. Remote Off. Maxii ~30V or o	0~0.6V or num Volta pen. User	r short. Lo ige: 30V, N selectable	10mA. cal: 2~30\ Maximum S e logic.		
6. INTERLOCK (ILC) control 7. Programmed signals		Enable/Di	able PS o able PS o	utput by output by	electrical :	gnal. Oper signal or c signal or c	n collector Iry contac Iry contac	r. Remote: t. 0~0.6V o t. Remote	ry contact On. Local: or short, 2- : 0~0.6V o	. Remote Off. Maxii ~30V or o r short. Lo	0~0.6V or num Volta pen. User: ocal: 2~30\	r short. Lo ige: 30V, N selectable / or open.	: 10mA. cal: 2~30\ Maximum S e logic.		
7. Programmed signals		Enable/Dis Enable/Dis Two open Maximum	sable PS o sable PS o drain pro- low level	utput by output by output by output by output by output wolf	electrical selectrical selectr	gnal. Ope signal or d signal or d Maximun //Minimu	n collector Iry contac Iry contac n voltage 2 m high lev	t. 0~0.6V of t. Remote t. Remote 25V, Maximal rel input v	ry contact On. Local: or short, 2- 0~0.6V or num sink oltage = 2	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		Enable/Dis Enable/Dis Two open Maximum tw=10us n	sable PS o sable PS o drain pro- low level ninimum.	utput by output	electrical selectrical selectr	gnal. Oper signal or d signal or d Maximun /, Minimun , Min dela	n collector Iry contact Iry contact n voltage 2 m high lev y betweer	t. 0~0.6V of t. Remote t. Remote 25V, Maximal rel input v	ry contact On. Local: or short, 2- 0~0.6V or num sink oltage = 2	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		Enable/Die Enable/Die Two open Maximum tw=10us n By electric	sable PS o sable PS o drain pro- low level ninimum. al Voltage	utput by output by output by output by output voltant input voltant inpu	electrical selectrical selectr	gnal. Oper signal or co signal or co Maximun /,Minimun , Min dela dry contac	n collector Iry contact Iry contact n voltage 2 m high lev y betweer	t. 0~0.6V of t. Remote t. Remote 25V, Maximal rel input v	ry contact On. Local: or short, 2- 0~0.6V or num sink oltage = 2	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		Enable/Dis Enable/Dis Two open Maximum tw=10us n	sable PS o sable PS o drain pro- low level ninimum. al Voltage	utput by output by output by output by output voltant input voltant voltant input voltant input voltant input voltant input voltant input volt	electrical selectrical selectr	gnal. Oper signal or co signal or co Maximun /,Minimun , Min dela dry contac	n collector Iry contact Iry contact n voltage 2 m high lev y betweer	t. 0~0.6V of t. Remote t. Remote 25V, Maximal rel input v	ry contact On. Local: or short, 2- 0~0.6V or num sink oltage = 2	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		Enable/Die Enable/Die Two open Maximum tw=10us n By electric	sable PS o sable PS o drain pro- low level ninimum. al Voltage	utput by output by output by output by output voltant input voltant voltant input voltant input voltant input voltant input voltant input volt	electrical selectrical selectr	gnal. Oper signal or co signal or co Maximun /,Minimun , Min dela dry contac	n collector Iry contact Iry contact n voltage 2 m high lev y betweer	t. 0~0.6V of t. Remote t. Remote 25V, Maximal rel input v	ry contact On. Local: or short, 2- 0~0.6V or num sink oltage = 2	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
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		Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK,	sable PS of sable PS of drain pro- low level ninimum. al Voltage 0V (500ol	utput by output by or grammab input volt Tr,Tf=1us le: 0~0.6V/ hm impec	electrical selectrical selectr	gnal. Oper signal or d signal or d Maximun /,Minimun , Min dela dry contact	n collector lry contact lry contact n voltage to m high lev y between	. Remote: t. 0~0.6V of t. Remote 25V, Maxin rel input v n 2 pulses	ry contact On. Local: or short, 2: 0~0.6V or mum sink oltage = 2 1ms.	Remote Off. Maxii ~30V or o r short. Lo current 10	0~0.6V or mum Volta pen. User : ical: 2~30\ 00mA (Shu	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
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		Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK,	sable PS of sable PS of sable PS of drain professional pr	utput by output by output by output by output volt input volt Tr,Tf=1us of the control of the co	electrical selectrical selectr	gnal. Oper gnal or c ignal or c Maximun /, Minimun , Min dela dry contac il	n collector Iry contact Iry contact n voltage in m high lev y between t.t.	. Remote: t. 0~0.6V of t. Remote 25V, Maxin el input v n 2 pulses	ry contact On. Local: or short, 2: 0~0.6V or mum sink oltage = 2 1ms.	Remote Off. Maxin ~30V or o r short. Lc current 10 .5V, Maxin	. 0~0.6V or num Volta pen. User : ccal: 2~30\ 00mA (Shu num high	r short. Lo ige: 30V, N selectable / or open. inted by 2	10mA. cal: 2~30\ Maximum S c logic.	ink Curre	nt: 10mA.
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		Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK, Two identi Consult wi	sable PS of sable PS of drain pro- low level ninimum. al Voltage 0V (500ol cal GSP ui th Factor plies can	utput by output by output by output by output by output by output be connected by output by output be connected by output by outp	electrical selectrical selectr	gnal. Opei gnal or c ignal or c Maximum V,Minimu , Min dela dry contac il	n collector lry contact lry contact n voltage m high lev y between t.t.	i. Remote: t. 0~0.6V it. Remote 25V, Maxii el input v n 2 pulses	ry contact On. Local: or short, 2: 0~0.6V or mum sink oltage = 2 lms.	Remote Off. Maxin ~30V or o r short. Lo current 10 .5V, Maxin	. 0~0.6V or num Volta pen. User : ccal: 2~30V 00mA (Shu num high	r short. Lo gge: 30V, M selectable / or open. inted by 2 level inpu	: 10mA. :cal: 2~30\ Maximum 9 e logic. :7V zener) ut = 5V po	ink Curre	nt: 10mA.
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		Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK, Two identi Consult wi Power sup Limits the	sable PS of sable	utput by output by output by output by output by output volt Tr.Tf=1us on the confidence of the confidence of the confidence on the confidence of the confid	electrical : electrical : le signals. age = 0.8' Maximum 2~30V or o lance)=Fa nore powe	gnal. Opei gnal or c ignal or c Maximum V, Minimu , Min dela dry contac il	n collector Iry contact Iry contact n voltage in high lev y between t.t.	i. Remote: t. 0~0.6V it. Remote 25V, Maxii el input v n 2 pulses h Factory	ry contact On. Local: or short, 2: 0 ~ 0.6V or mum sink oltage = 2 1ms.  turn-on a	Remote Off. Maxii ~30V or o r short. Lc current 10 .5V, Maxii	0~0.6V or num Volta pen. User: ccal: 2~30\ 00mA (Shu num high	r short. Lo gge: 30V, M selectable / or open. inted by 2 level inpu	and the state of t	Sink Currei	nt: 10mA.
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		Enable/Diz Enable/Diz Two open Maximum tw=10us n By electric 4~5V=OK,  Two identi Consult wi Power sup Limits the Emulates s	sable PS o sable PS o drain pro- low level ninimum. al Voltage OV (500ol cal GSP u th Factor; plies can output po eries resis	utput by output by output by output by output by output volt Tr,Tf=1us on the confidence of the confidence of the confidence on the confidence of the confid	electrical : electrical : le signals. age = 0.8' Maximum 2~30V or o lance)=Fa hore powe cted in Da proggram sistance r.	gnal. Opei signal or c signal or c Maximun /, Minimui , Min dela fry contact il r please c isy chain t med value ange: 1~1	n collector lry contact lry contact n voltage m high lev y between ct.	i. Remote: t. 0~0.6V of t. Remote 25V, Maxinel input v n 2 pulses h Factory nnize their	ry contact On. Local: or short, 2- 0 ~ 0.6V or num sink- oltage = 2 1ms.  turn-on a the comming via the	Remote Off. Maxin ~30V or o r short. Lc current 10 .5V, Maxin and turn-o nunication	0~0.6V or mum Volta pen. User: ical: 2~30\ iOmA (Shu num high	r short. Lo gge: 30V, M selectable of or open. inted by 2 level inpu	and the state of t	sitive edge	nt: 10mA.
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		Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK,  Two identi Consult wi Power sup Limits the Emulates s Programm	sable PS of sable	utput by utput volt Tr,Tf=1us is: 0~0.6V/.hm impec	electrical : electrical : le signals. age = 0.8' Maximum 2~30V or c lance)=Fa hore powe cted in Da proggram sistance r. d Output	gnal. Opei signal or c signal or c Maximun /, Minimui , Min dela dry contac il r please c isy chain t med valua ange: 1~1 fall slew r	n collector lry contact lry contact n voltage m high lev y between ct.	i. Remote: t. 0~0.6V of t. Remote 25V, Maxinel input v n 2 pulses h Factory nnize their	ry contact On. Local: or short, 2- 0 ~ 0.6V or num sink- oltage = 2 1ms.  turn-on a the comming via the	Remote Off. Maxin ~30V or o r short. Lc current 10 .5V, Maxin and turn-o nunication	0~0.6V or mum Volta pen. User: ical: 2~30\ iOmA (Shu num high	r short. Lo gge: 30V, M selectable of or open. inted by 2 level inpu	and the state of t	sitive edge	nt: 10mA.
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 6. Slew rate control		Enable/Di Enable/Di Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,  Two identi Consult wi Power sup Limits the Emulates s Programm communic	sable PS of sable	utput by output by output by output by output by output volt Tr,Tf=1us on the control of the con	electrical : electrical : le signals. age = 0.8' Maximum 2~30V or c lance)=Fa hore powe eted in Da proggram sistance r. id Output ront pane	gnal. Opei signal or c signal or c Maximun /, Minimun , Min dela dry contact il r please c isy chain t med value ange: 1~1 fall slew r I.	n collector lry contact lry contact n voltage in high lev y between ct.	i. Remote: t. 0~0.6V of t. Remote 25V, Maxii el input v n 2 pulses h Factory unize their naming via rogramm amming r	ry contact On. Local: or short, 2: 0~0.6V or mum sink ololtage = 2 Ims.  turn-on a the comm ing via the ange: 0.00	nd turn-o	0~0.6V or mum Volta pen. User r ccal: 2~30\ 00mA (Shu mum high	r short. Lo ge: 30V, M selectable / or open. inted by 2 level inputable iche front prorts or the or A/mSe	annel.  front panel.  front panel.  front panec.  front panec.  front panec.	sitive edge	e trigger:
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 6. Slew rate control 7. Arbitrary waveforms		Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK,  Two identi Consult wi Power sup Limits the Emulates s Programm	sable PS of sable	utput by output by output by output by output by output volt Tr,Tf=1us on the control of the con	electrical : electrical : le signals. age = 0.8' Maximum 2~30V or c lance)=Fa hore powe eted in Da proggram sistance r. id Output ront pane	gnal. Opei signal or c signal or c Maximun /, Minimun , Min dela dry contact il r please c isy chain t med value ange: 1~1 fall slew r I.	n collector lry contact lry contact n voltage in high lev y between ct.	i. Remote: t. 0~0.6V of t. Remote 25V, Maxii el input v n 2 pulses h Factory unize their naming via rogramm amming r	ry contact On. Local: or short, 2: 0~0.6V or mum sink ololtage = 2 Ims.  turn-on a the comm ing via the ange: 0.00	nd turn-o	0~0.6V or mum Volta pen. User r ccal: 2~30\ 00mA (Shu mum high	r short. Lo ge: 30V, M selectable / or open. inted by 2 level inputable iche front prorts or the or A/mSe	annel.  front panel.  front panel.  front panec.  front panec.  front panec.	sitive edge	e trigger:
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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 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. Jout programming resolution 5. Vout readback accuracy		Enable/Di: Enable/Di: Enable/Di: Enable/Di: Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric Consult wi Power sup Limits the Emulates s Programm communic Profiles of  0.05% of ra 0.002% of 0.002% of 0.005% of r	sable PS osable PS osable PS osable PS odrain pro- low level inimum. al Voltage OV (500ol  cal GSP ut th Factor; plies can output po- series resisable Out; ation por up to 100  20  ated outputed output	utput by utput by utput by utput by grammab input voll Tr,Tf=1us in Tr	electrical : electrical : les signals. age = 0.8 Maximum 2-30V or or lance)=Fa more powe cted in Da proggram sistance r. d Output ront pane be storec	gnal. Opei gnal or c ignal or c Maximun /,Minimui ,Min dela dry contac il er please c isy chain t med value ange: 1~1 fall sew r l.	n collector lry contact lry contact ry contact n voltage in y between t.t. consult wit consult wit re. Program 000mΩ. P ate. Progr	: Remote: t. 0~0.6V of t. Remote 25V, Maxin el input v n 2 pulses h Factory unize their nming via rogramm amming r	ry contact On. Local: or short, 2- or 0~0.6V or mum sink oltage = 2 1ms.  turn-on a the comm ing via the ange: 0.00	Remote Off. Maxin ~30V or o r short. Lc current 10. .5V, Maxin and turn-o nunication communication communication	0~0.6V or mum Volta pen. User: ccal: 2~30\ 00mA (Shu num high	r short. Lo gge: 30V, M selectable of or open. inted by 2 level inputable. the front ports or the or A/mSe	annel.  front panel.  front panel.  front panec. Program	el. nming via	e trigger: the

### GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			User pres	etable. Re	set by AC	input rec	ycle in auto	ostart mo	de, by Pov	ver Switcl	n, by OUTP	UT buttor	n, by rear p	anel or by	to CV mode y communi	e. cation.
2.Over-voltage protection (OVP)											outton, by					
3. Over -voltage programming ra		V		1~24			5~55.125	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5
<ol> <li>Over-voltage programming ac</li> </ol>					ut voltag											
5.Output under voltage limit (UV	(L)								n analog	programn	ning. Prese	t by front	panel or o	ommunic	ation port.	
6.Over temperature protection							by autosta	art mode.								
7. Output under voltage limit (U\	/L)		Prevents	adjustmer	nt of Vout	below lin	nit.									
8. Output under voltage protect	ion (UVP)		Prevents mode, by	adjustmer Power Sw	nt of Vout vitch, by O	below lin UTPUT bu	nit. P.S outp utton, by re	out turns ( ear panel (	Off during or by com	under vo municatio	oltage conc on.	lition. Res	set by AC i	nput recyc	cle in autos	tart
FRONT PANEL																
1.Control functions			Multiple	options wi	th 2 Enco	ders										
			Vout/lout													
			OVP/UVL	UVP man	ual adjust											
			Protectio	n Functio	ns - OVP, L	VL,UVP, F	oldback, C	CL, ENA,	ILC							
			Commun	ication Fu	nctions - S	Selection	of LAN,IEE	E,RS232,R	S485,USB	or Option	nal commu	nication i	nterface.			
			Output O	N/OFF. Fro	ont Panel	Lock.										
											cation lang					
											5K/10K pro	ogrammir	ng			
							of Voltage/			5V/10V.						
2.Display							output vo									
							utput curr									
3.Front Panel Buttons Indication	S		OUTPUT (	ON, ALARI	M, PREVIE	W, FINE, C	OMMUNIC	ATION, P	ROTECTIO	N,CONFIC	GURATION,	SYSTEM,	SEQUENC	ER.		
4. Front Panel Display Indication	S		Voltage, ( (commun	Current, Po ication), R	ower, CV, 0 S/USB/LA	CC, CP, Ext N/IEEE co	ternal Volta mmunicat	age, Exter ion, Trigg	nal Currei er, Load/S	nt, Addres Store Cell.	ss, LFP, Auto	ostart, Saf	fetstart, Fo	oldback V/	I, Remote	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 1	00% load												
2.Storage temperature			-30~85°C	00 /0 1000												
		%	20~90% F	NII /		-1										
3.Operating humidity																
4.Storage humidity		%	10~95% F													
5.Altitude (*17)			Operating	g: 10000ft	(3000m),	output cu	rrent dera	ting 2%/10	00m or Ta	derating	1°C/100m a	bove 200	00m. Non c	perating:	40000ft (12	2000m).
MECHANICAL																
1.Cooling			Forced ai	cooling b	y interna	fans. Air	flow direct	tion: from	Front par	nel to pov	er supply i	rear				
2.Weight	GSP 10kW	kg	Less than		,											
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H	: 88, D: 44			s and busb s and busb		and strain	relief) (Re	fer to Outlir	ne drawing	g).			
2.Weight	GSP 15kW	kg	Less than	23.5kg.												
3.Dimensions (WxHxD)	GSP 15kW	mm					sbars and sbars and l			strain relie	f) (Refer to	Outline o	drawing).			
4.Vibration	<u> </u>		MIL-810G	, method	514.6, Pro	cedure I, t	est condit	ion Annex	C - 2.1.3.	1						
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
SAFETY/EMC																
1.Applicable standards:	Safety		UL61010-	1. CSA22 2	No.L6101	0-1. IECI 6	51010-1, EN	IL61010-1								
ppcubic standards.	Julety											-) CE::	,			
1.1. Interface classification			60≤ Vout	≤ 600V M	lodels: Ou	tput, J8 (s	ense) are l	nazardous	, J1,J2,J3,.	J4,J5,J6,J7	ion option: 7 and J9 (co	mmunica	v. ation optic	ns) are SE	LV	
											d: 2835VD 242VDC 1ı		out - SFI\	/: 850VD	C 1min.	
1.2 Withstand voltage							put - Grou					,			,	
							•				242VDC 1	min, Outp	put - SEL\	/: 1275V[	OC 1min,	
1.3 Insulation resistance			_				6RH. Outp									
2.Conducted emmision			_				, Annex H				I-A.					
3.Radiated emission							-				5-A, VCCI-A					
4. EMC compliance	EMC(*18)		IEC/EN61								,					
zc compnance	L.TIC( 10)		.2C, LINO 1.	-UT J IIIUL	as criul CIIV											

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 voltage.

  \*2: Minimum current is guaranteed to maximum 0.2% of rated output current.

  \*3: GSP 10kW: Derate 10A/1°C above 40°C. GSP 15kW: 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 0.2mSec.

  \*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 JETA RC-913TC (1:1) probe. For 300-600V 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~1MHz.

  \*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 Tale rating 2\*C/100m."

  \*18:\*Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

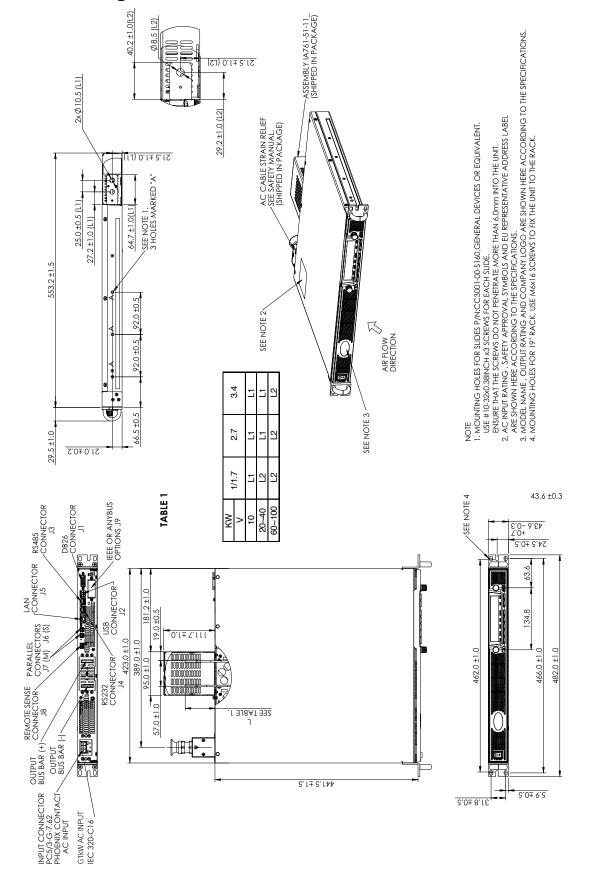
  \*19:Max. ambient temperature for using IEEE is 40°C.

  \*20:GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.

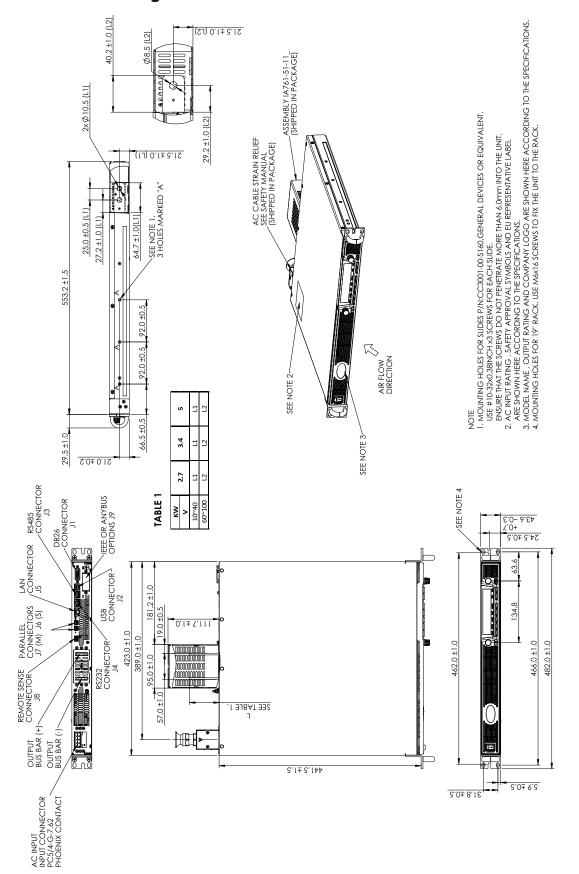
  \*20:GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C

- \*22: Typ. at Ta=25°C, rated output power. \*23: For steady state only.

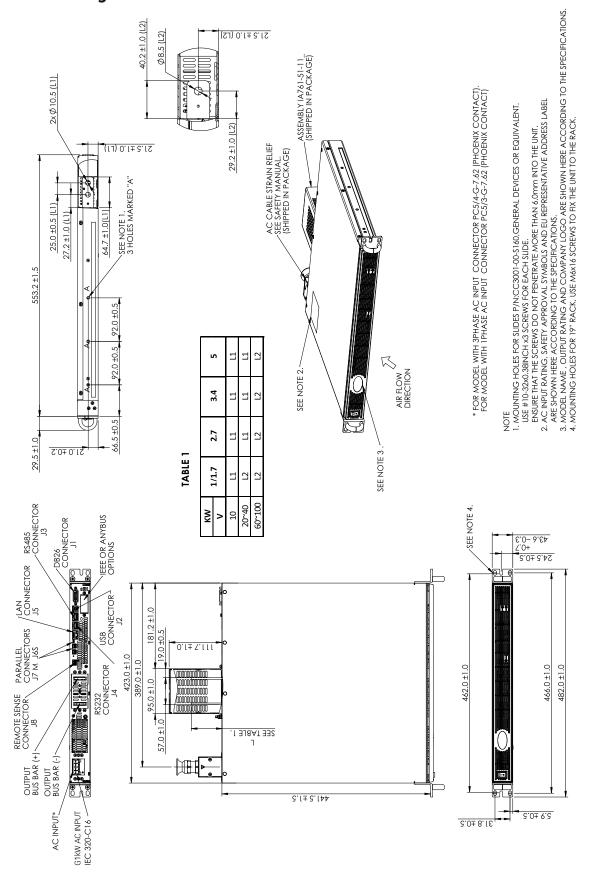
# Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



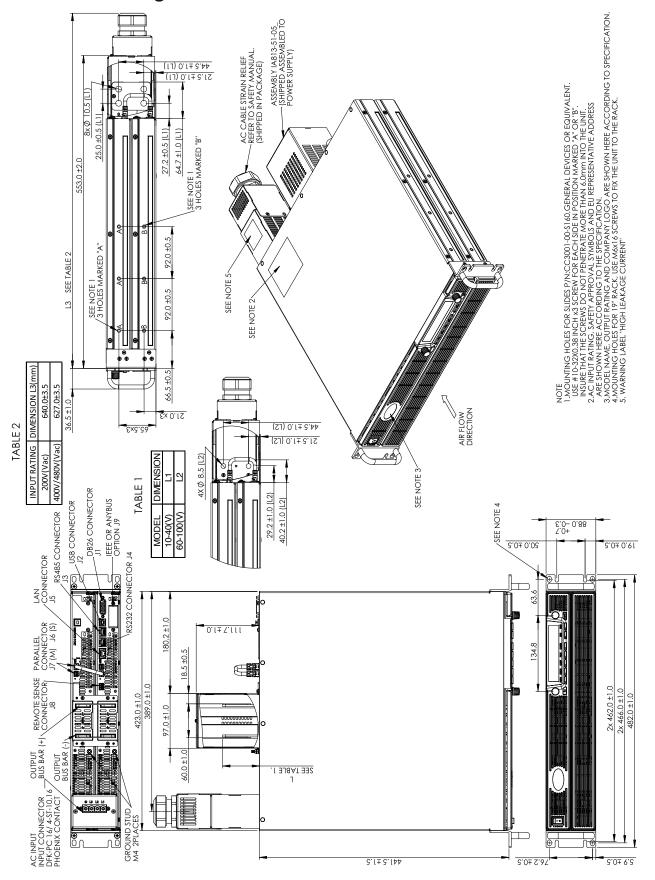
# Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



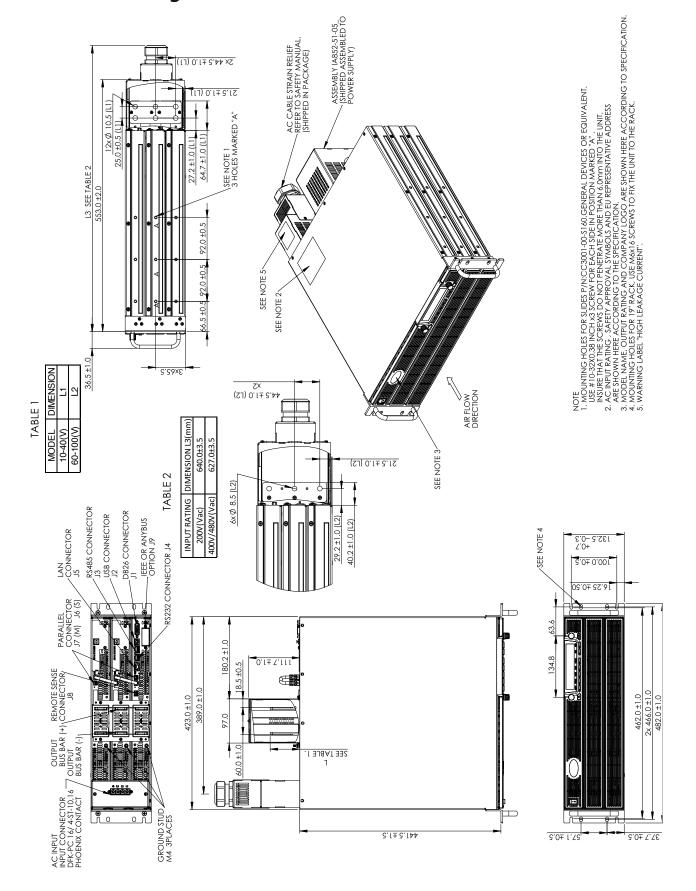
# Outline Drawing GENESYS<sup>™</sup> GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



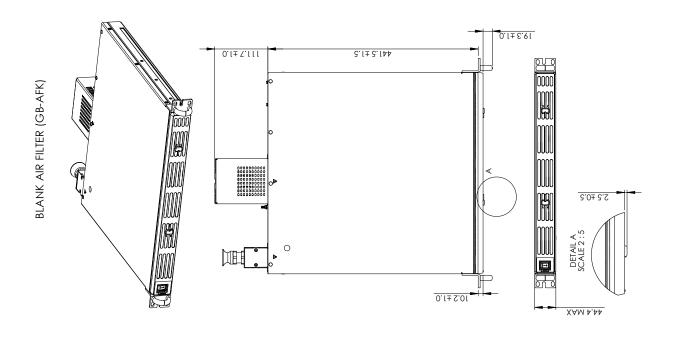
# Outline Drawing GENESYS™ GSP10kW

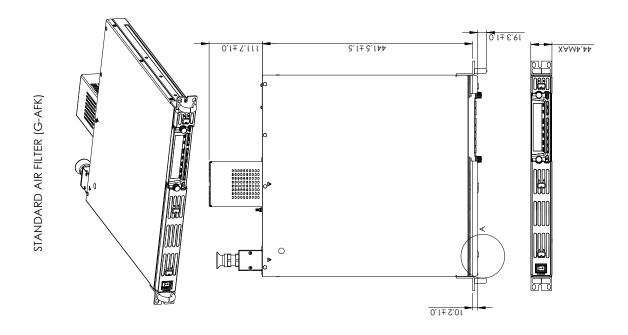


# Outline Drawing GENESYS™ GSP15kW



# Outline Drawing **G**ENESYS<sup>™</sup> Air Filter Kit







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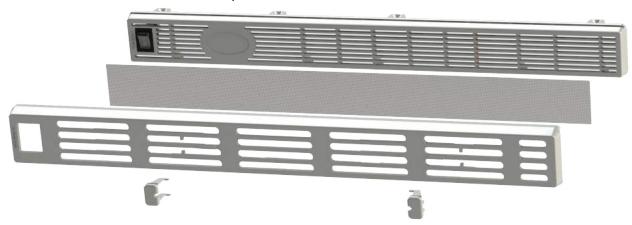
### Front Panel Air Filter Assembly

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

### **Accessories**

### 1. Front Panel dust filter / Field installation kit:

### 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°C < Ta < +40°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)

### Filter Foam Technical Specifications

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

### **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)

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

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

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