dataTec

Mess- und Prüftechnik. Die Experten.

Ihr Ansprechpartner / Your Partner:

dataTec AG E-Mail: info@datatec.eu >>> www.datatec.eu GENESYS[™] G Series Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW 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





Trusted • Innovative • Reliable





The GENESYS[™] 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 (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs: G1kW/1.7kW: 1ø (85~265VAC)
 G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
 G5kW / G7.5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, 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™/CVI, LabVIEW™, 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 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

G*E***NESYS**[™] 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 twelve (12) 7.5kW 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-7.5kW 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.
- 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.
- 13. G+ 5kW 1000V and 1.500V has the same housing as 7.5kW

G7.5kW Rear Panel Description



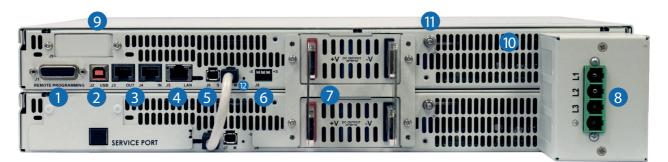
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- Remote/Local Output Voltage Sense Connections.
 Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- G7.5kW: AC Input: 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. AC Input: 208VAC, 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 units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

GSP10kW Front Panel Description

		34	3	
	TDKLambda		1000A	
	GSP16-100Vc-1000A DC Power Supply		COMM FINE PREV	
-1		5	6	
				5

- 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



- 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 DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- 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

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		(5)	6

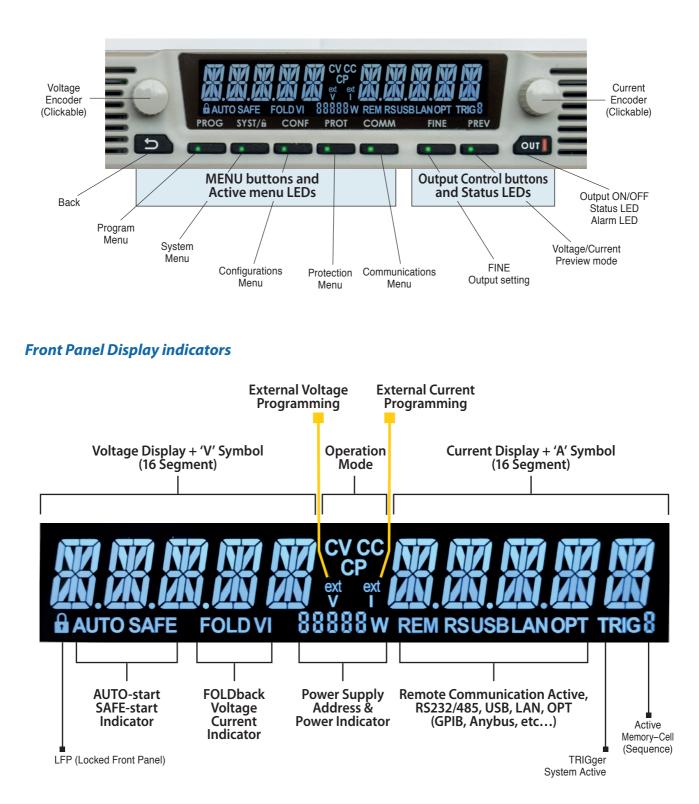
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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



OUT (LED)

GENESYS[™] G&GSP Series Blank Front Panel (ATE version)



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.

G*E***NESYS[™]** Parallel and Series Configurations

Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to twelve (12) identical units to be connected

Total real current is programmed measured and reported by the Master. Up to twelve (12) supplies operate as one.

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

Standard Unit - zero stacked up to 12 units

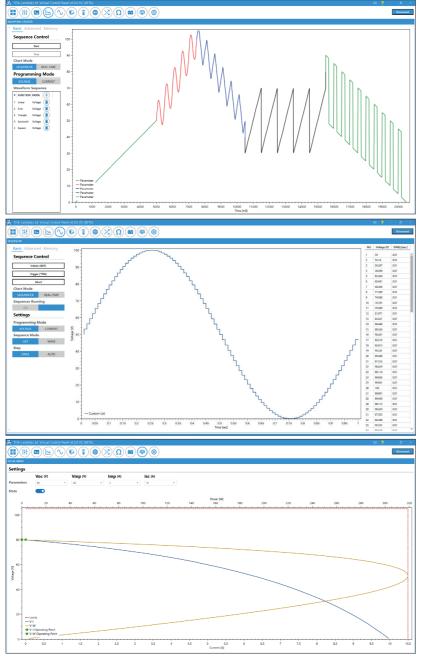


Graphical User Interface

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

- 1. 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. 2. Automatically detect power supplies connected to a PC and/or local network.
- 3. 3. Advanced Terminal, including Modbus-TCP and EtherCAT communication interfaces.
- 4. 4. Real-time Graph and Waveform creator, including pre-built functions i.e. Sine, Triangle and Square.
- 5. 5. Solar array simulation based on VOC, VMP, IMP, ISC.
- 6. 6. Advanced functions control Slew-Rate, Internal Resistance and Constant Power.
- 7. 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.





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

G	10	- 170 -			-
Series Name	Output	Output	Interface Options	AC Cord Options only for 1kW	Accessories Options
Front Panel Type	Voltage	Current		Region: E - Europe	M - Printed *User Manual
Empty: standard	(0~10V)	(0~170A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Pane	el (ATE version)			J - Japan	P - Bus Parralleling Cable
			•	C - China	
AC Inputs (All N	Aodels)			I - Middle East	
1Ø, 85 ~ 265Vac					
Interface Optic	ons (Factory i	nstalled)	P/N		
LAN (LXI 1.5 complia		,	-		
USB 2.0 compliant		apability - built-in	-		
RS-232/RS-485 - t Isolated Analog Pro		rfaaa	-		
Ũ	0		-		
(5V/10V Pgm/Mon v IEEE (488.2 & SCPI		ilti-Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		
Isolated Analog Cur (4mA-20mA with 60		nitor Interface	IS420		

Models 1kW

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

Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700	G80-21	0~80V	0~21	1680
G20-85	0~20V	0~85	1700	G100-17	0~100V	0~17	1700
G30-56	0~30V	0~56	1680	G150-11.2	0~150V	0~11.2	1680
G40-42	0~40V	0~42	1680	G300-5.6	0~300V	0~5.6	1680
G60-28	0~60V	0~28	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 *GE***NESYS**[™] 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						
4. User Manual		·					

Printed User Manual	G/M

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

	GZ <i>iiiiiiiiiiiii</i>	5.11.11 1.01.01	Supply lucilli			
G	10	340				
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options	
Front Panel Type	Voltage	Current	:	1P208 (Single Phase 170~265VAC)	M - Printed *User Manua	
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase 170~265VAC)	* User Manual & GUI are	
B: Blank Front Panel	(ATE version)			3P400 (Three Phase 342~460VAC)	available on the website	
				3P480 (Three Phase 342~528VAC)	P - Bus Parralleling Cable	
	nt with Multi-Dr with Multi-Dro	y installed) op capability)- built-in o capability - built-in	P/N			
Isolated Analog Pro (5V/10V Pgm/Mon v	ogram/Monitor with 600V isola		- IEEE			
Modbus-TCP	npilani witi i Mulli-i	Drop capability Installed)	MDBS			
EtherCAT			ECAT			
Isolated Analog Cur	rent Program/I	Monitor Interface	IS420			

Models G2.7kW

(4mA-20mA with 600V isolation)

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650	G80-34	0~80V	0~34	2720
G20-135	0~20V	0~135	2700	G100-27	0~100V	0~27	2700
G30-90	0~30V	0~90	2700	G150-18	0~150V	0~18	2700
G40-68	0~40V	0~68	2720	G300-9	0~300V	0~9	2700
G60-45	0~60V	0~45	2700	G600-4.5	0~600V	0~4.5	2700

Models G3.4kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-340	0~10V	0~340	3400	G80-42	0~80V	0~42	3360
G20-170	0~20V	0~170	3400	G100-34	0~100V	0~34	3400
G30-112	0~30V	0~112	3360	G150-22.5	0~150V	0~22.5	3375
G40-85	0~40V	0~85	3400	G300-11.5	0~300V	0~11.5	3450
G60-56	0~60V	0~56	3360	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[™] 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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How to order G5kW - Power Supply Identification / Accessories

G	10 -	500 -			
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are
B: Blank Front Panel (ATE version)				3P480 (Three Phase 342~528VAC)	available on the website
			<u> </u>		P - Bus Parralleling Cable
Interface Optic	ons (Factor	y installed)	P/N		
		op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - b	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
· •		Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		
Isolated Analog Cur (4mA-20mA with 60		Monitor Interface	IS420		

Models 5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G10-500	0~10V	0~500	5000	G150-34	0~150V	0~34	5100
G20-250	0~20V	0~250	5000	G200-25	0~200V	0~25	5000
G30-170	0~30V	0~170	5100	G300-17	0~300V	0~17	5100
G40-125	0~40V	0~125	5000	G400-13	0~400V	0~13	5200
G50-100	0~50V	0~100	5000	G500-10	0~500V	0~10	5000
G60-85	0~60V	0~85	5100	G600-8.5	0~600V	0~8.5	5100
G80-65	0~80V	0~65	5200	G1000-5	0~1000V	0~5	5000
G100-50	0~100V	0~50	5000	G1500-3.4	0~1500V	0~3.4	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 **G***E***NESYS**[™] 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

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 G7.5kW - Power Supply Identification / Accessories

G	20 -	375			-
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~20V)	(0~375A)		3P480 (Three Phase 342~528VAC)	* User Manual & GUI are
B: Blank Front Panel	(ATE version)				available on the website
					P - Bus Parralleling Cable
			V		
Interface Optic	ons (Factor	y installed)	P/N		
LAN (LXI 1.5 complia	nt with Multi-Dr	op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - b	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
IEEE (488.2 & SCPI con	npliant with Multi-[Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G20-375	0~20V	0~375	7500	G150-50	0~150V	0~50	7500
G30-250	0~30V	0~250	7500	G200-37.5	0~200V	0~37.5	7500
G40-188	0~40V	0~188	7520	G300-25	0~300V	0~25	7500
G60-125	0~60V	0~125	7500	G600-12.5	0~600V	0~12.5	7500
G80-94	0~80V	0~94	7500	G1000-7.5	0~1000V	0~7.5	7500
G100-75	0~100V	0~75	7500	G1500-5	0~1500V	0~5	7500

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 **G***E***NESYS**[™] 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: 30kW/45kW

G/P-4U: BusBar Parallel Kit for 30 kW operation

G/P-6U: BusBar Parallel Kit for 45 kW operation

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

G SP	10	- 1500			-		
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options		
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual		
Empty: standard	(0~10V)	(0~1500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are		
B: Blank Front Panel (ATE version)			V	3P480 (Three Phase 342~528VAC)	available on the website		
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			<i>P/N</i>				
IEEE (488.2 & SCPI compliant with Multi-Drop capability installed)			IEEE				
Modbus-TCP			MDBS				
EtherCAT			ECAT				
Isolated Analog Curre (4mA-20mA with 600	0	onitor Interface	IS420				

Models GSP 10kW

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

Models GSP 15kW

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

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

Printed User Manual	G/M
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Models Series	G (Std Front Panel Display) GB (Blank Front Panel Display)								GSP/GBSP (Scalable Power)	
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	5kW - HV	7.5kW	10kW	15kW	
Voltage Range				Cu	urrent Ran	ge (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		0~375A	0~500A	0~750A	
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A		0~250A	0~340A	0~510A	
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A		0~188A	0~250A	0~375A	
0-50V	-	-	-	-	0~100A		-	0~200A	0~300A	
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A		0~125A	0~170A	0~255A	
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A		0~94A	0~130A	0~195A	
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A		0~75A	0~100A	0~150A	
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A		0~50A	0~68A	0~102A	
0-200V	-	-	-	-	0~25A		0~37.5A	0~50A	0~75A	
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A		0~25A	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		0~12.5A	0~17A	0~25.5A	
0-1000V	-	-	-	-		0~0.5A	0~7.5A	-	-	
0-1500V	-	-	-	-		0~3.4A	0~5A	-	-	
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	8.5/18.7	15.5/34.2	23.5/51.8	

G*E***NESYS[™]** Family Output Voltage and Current

AC Input Range

	-							
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*	*
3P400	N/A	N/A	*	*	*	N/A	*	*
3P480	N/A	N/A	*	*	*	*	*	*

3P208 (Three Phase 170~265VAC), 3P400 (Three Phase 342~460VAC), 3P480 (Three Phase 342~528VAC)

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

Models 1.5kW

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

GH80-12.5

GH100-10

GH300-3.5

GH600-1.7

GH150-7



0~12.5

0~10

0~3.5

0~1.7

0~7

1000

1000

1050

1050

1020

0~80V

0~100V

0~150V

0~300V

0~600V

G^ENESYS[™] 1kW SERIES SPECIFICATIONS

		·							1		
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) 2.Rated output current (*2)	V A	10	20 50	30 34	40 25	60 17	80	100	150	300 3.5	600 1.7
3.Rated output power	W	1000	1000	1020	1000	1020	12.5	1000	1050	1050	1.7
	1			, 1							
	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3) 2. Maximum Input current at 100% load (100/200)	 A		ontinuous, 47	~63HZ, Single	Phase						
3.Power Factor (Typ)	A	12.5/6.5	c 0.98 @ 200	Vac rated out	nut nouvor						
4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50/		0//09	07/05	07/05	0//05	00/90	00/90	00/90	00/90
	1		1								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta	5							
2.Max. Load regulation (*7)			d output volta	-			1				
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	б	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C				lowing 30 min						
5.Temperature stability					lowing 30 min				p.		
7. Warm-up drift		Less than 0.0	1% of rated ou	tput voltage-	⊦2mV over 30 r	ninutes follov	ving power on				
3.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
0.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
1.Transient response time	mS				n 0.5% of its ra					urrent. Output	t set-point
				than 1mS, fo	r models up to	and including	g 100V. 2mS, fc	or models abo	ve 100V.		
2.Start up delay	Sec	Less than 6 Se	ec								
I3.Hold-up time	mS				201	ns typical, rat	ted output pov	wer			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)			d output curre		-10	00		100	150	300	000
Max. Load regulation (*9)			d output curre								
Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
.Ripple1.III.s. @Tated Voltage. B.W SH2~INIH2. (*15)	mA				out current, fol				\$10	50	S
.Temperature coefficient	PPM/°C				ut current, follo						
T				· ·		5	· ·				
.Temperature stability					lowing 30 min						
. Warm-up drift					ated output co				on.		
		150V~600V: L	_ess than +/-0.	15% of rated	output current	over 30 minu	ites following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT)									
		-	V 0 10V								
			v or u~10v, us	er selectable.	Accuracy and	linearity: +/-0).15% of rated \	Vout.			
						,).15% of rated \).4% of rated lo				
lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	0.4% of rated lo	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 sel	Accuracy and ectable. Accura	linearity: +/-0 acy and linear	0.4% of rated lo rity: +/-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	er selectable. scale, user sel scale, user sel	Accuracy and ectable. Accura	linearity: +/-0 acy and linear acy and linear	0.4% of rated lo rity: +/-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	er selectable. scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout.	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
I Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)		0~100%, 0~5 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	er selectable. scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accura	linearity: +/-0 acy and linear acy and linear ted Vout.	0.4% of rated lo rity: +/-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	er selectable. scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout.	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 5.Output current monitor (*14) 5IGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	 	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 s /10Kohm full s V, user selecta V, user selecta	er selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra	linearity: +/-C acy and linear acy and linear ted Vout. ted lout.	0.4% of rated lo rity: +/-0.5% of rity: +/-0.5% of	out. Frated Vout. Frated lout.	e: 30V, Maxim	um Sink Currei	nt: 10mA.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 5.Output current monitor (*14) 5 IGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	V or 0~10V, us /10Kohm full s /10Kohm full s V, user selecta V, user selecta v output moni	er selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy tor. Open coll	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra r: +/-0.5% of ra	linearity: +/-C acy and linear acy and linear ted Vout. ted lout. Dn: On. Outpu	0.4% of rated lc ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max	out. Frated Vout. Frated lout.			nt: 10mA.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 5.Output current monitor (*14) 5.IONALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal	 T) 	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	V or 0~10V, us /10Kohm full s /10Kohm full s IV, user selecta V, user selecta y output moni or. Open colle	er selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy tor. Open coll ctor. CC mode	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra r: +/-0.5% of ra ector. Output (linearity: +/-C acy and linear acy and linear ted Vout. ted lout. Dn: On. Outpu : Off. Maximu).4% of rated Ic 'ity: +/-0.5% of 'ity: +/-0.5% of ut Off: Off. May m Voltage: 30'	out. Frated Vout. Frated Iout. Kimum Voltag	ink Current: 10	0mA.	
2.lout voltage programming (*14) 1.lout resistor programming (*14) 5.Output voltage monitor 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 5. LOCAL/REMOTE Analog control	 T) 	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 Moniti Enable/Disab	V or 0~10V, us /10Kohm full s /10Kohm full s W, user selecta V, user selecta y output moni or. Open collection ole analog pro	er selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy tor. Open coll ctor. CC mode gramming co	Accuracy and ectable. Accura ectable. Accura :: +/-0.5% of ra :: +/-0.5% of ra ector. Output (:: On. CV mode	linearity: +/-C acy and linear acy and linear ted Vout. ted lout. Dn: On. Output : Off. Maximu cal signal or c).4% of rated Ic ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max m Voltage: 30' dry contact. Re	out. Frated Vout. Frated lout. Kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	0mA. Il: 2~30V or op	en.
Llout voltage programming (*14) .Vout resistor programming .lout resistor programming (*14) .Output voltage monitor .Output current monitor (*14) IGNALS AND CONTROLS (ISOLATED FROM THE OUTPU . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal	 T) T 	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 Monit Enable/Disab analog progr	V or 0~10V, us /10Kohm full s /10Kohm full s /V, user selecta /V, user selecta y output moni or. Open colle ole analog pro amming contr	er selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy tor. Open coll ctor. CC mode gramming co ol monitor sig	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra r: +/-0.5% of ra ector. Output (ector. Output (c: On. CV mode ntrol by electri	linearity: +/-C acy and linear acy and linear ted Vout. ted lout. Dn: On. Output : Off. Maximu cal signal or c ctor. Remote:).4% of rated Ic ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. May m Voltage: 30' dry contact. Re : On. Local: Off.	out. rated Vout. rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	ink Current: 10 or short. Loca Itage: 30V, Ma	0mA. Il: 2~30V or op ximum Sink Cu	en.
2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 5. Output voltage monitor (*14) 5. IGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 5. Power supply OK #1 signal 5. CV/CC signal 5. LOCAL/REMOTE Analog control 6. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. ENABLE/DISABLE signal	 T) -	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 CV/CC Monit Enable/Disat analog progr Enable/Disat	V or 0~10V, us /10Kohm full s /10Kohm full s /V, user selecta V, user selecta y output moni or. Open colle ole analog pro amming contr ole PS output b	er selectable. scale, user sel able. Accuracy able. Accuracy able. Accuracy tor. Open coll ctor. CC mode gramming co ol monitor sig py electrical si	Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra r: +/-0.5% of ra ector. Output (ector. Output (linearity: +/-C acy and linear acy and linear ted Vout. ted lout. On: On. Output : Off. Maximu cal signal or c ctor. Remote: intact. 0~0.6V).4% of rated Ic ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max m Voltage: 30' dry contact. Re : On. Local: Off. or short, 2~30'	out. Frated Vout. Frated lout. Kimum Voltag V, Maximum S Mote: 0~0.6V Maximum Vo V or open. Use	ink Current: 10 ' or short. Loca Itage: 30V, Ma er selectable lo	0mA. Il: 2~30V or op ximum Sink Cu	en.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 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 5. INTERLOCK (ILC) control	 T) -	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat analog progr Enable/Disat Enable/Disat	V or 0~10V, us /10Kohm full s /10Kohm full s /V, user selecta v/, user sel	er selectable. scale, user sel able. Accuracy able. Accuracy able. Accuracy tor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si by electrical si	Accuracy and ectable. Accura ectable. Accura ectable. Accura ectable. Accura ector. Output (ector. Output (e	linearity: +/-C acy and linear acy and linear ted Vout. ted lout. On: On. Output : Off. Maximu cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote).4% of rated Ic ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. May m Voltage: 30' dry contact. Re On. Local: Off. or short, 2~30' e: 0~0.6V or sho	out. rated Vout. rated lout. rated lout. v, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	ink Current: 10 7 or short. Loca Itage: 30V, Ma: er selectable lo 80V or open.	0mA. ıl: 2~30V or op ximum Sink Cu ogic.	en.
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2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 5.Output current monitor (*14)	 	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 Power supply CV/CC Monit Enable/Disat analog progr Enable/Disat Two open dra By electrical 1 4~5V=0K, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicat Profiles of up 10 0.05% of rate 0.002% of rate 0.05% of rate	V or 0~10V, us /10Kohm full s /10Kohm full s //10Kohm full s V, user selecta V, user selecta v output moni or. Open colle- ole analog pro amming contr le PS output t bole PS output t bole PS output t bole PS output t bole PS output t voltage: 0~0.6 / (5000hm imp to 4 identical uni es can be con tput power to ies resistance. ble Output rise on ports or th to 100 steps o 20 d output volta ed output volta	er selectable. ccale, user sel- scale, user sel- scale, user sel- able. Accuracy ble. Accuracy tor. Open coll ctor. CC mode gramming co ol monitor sig y electrical si able signals. I, tro voltage = ininum. Tr, V/2-30V or d bedance)=Fail units in Maste s. Refer to ins nected in Daia a proggramm Resistance ra and Output f e front panel- can be stored 30 ge nt+0.2% of ra tage rent age	Accuracy and ectable. Accura- ectable. Accura- ectable. Accura- r: +/-0.5% of ra ector. Output (ector. Output	linearity: +/-C acy and linear acy and linear acy and linear ted Vout. ted lout. Off. Maximu cal signal or c ctor. Remote: al. chronic termine al. chronic their gramming via Ω. Programm ogramming via β0 (1)	0.4% of rated Ic ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. May im Voltage: 30 fry contact. Re : On. Local: Off. or short, 2~30 :: 0~0.6V or sho mum sink curr input voltage lay between i uction manual. r turn-on and t the communi- ing via the cor range: 0.0001~ n by command	put. rated Vout. rated lout. rated lout. wimum Voltagg V, Maximum S mote: 0-0.6V Maximum Vo V or open. Usion off. Local: 2-3 ent 100mA (S e = 2.5V, Maximum Voltage e = 2.5V, Maximum Voltage e = 2.5V, Maximum Voltage unn-off. cation ports c mmunication 999.99 V/mSee d via the comm	ink Current: 10 ' or short. Loca Itage: 30V, Mai tr selectable le i0V or open. hunted by 27V kimum high l . or the front pai ports or the fr c. or A/mSec. munication po 150	0mA. II: 2~30V or op- ximum Sink Cu ogic. / zener) level input = - vel input = - nel. ont panel. Programming rts or by the fr	en. Irrent: 10m 5V positiv via the ront panel. 600

TDK·Lambda _____

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)		A	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)					~63Hz,Single							
2. Maximum Input current at 100	% load (100/200)	A	20/10		. ,							
3.Power Factor (Typ)			0.99 @ 100Va	c 0.98@200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, ra	ted output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		A	Less than 50A	١								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)				d output volta		-10	00	00	100	150	500	000
2.Max. Load regulation (*7)				d output volta								
-	(*0)	mV	50	50	50	60	60	75	75	75	120	500
3.Ripple and noise (p-p, 20MHz)						7	7					
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6			10	12	8	20	100
5.Temperature coefficient		PPM/°C				owing 30 min			1 10.			
6.Temperature stability						lowing 30 min				p.		
7. Warm-up drift						2mV over 30 n		1	1	1		
8.Remote sense compensation/w	ire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time:	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
to.bown-plog.response time.	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time		mS	Time for outp	out voltage to	recover within	0.5% of its ra	ted output fo	r a load chang	e 10~90% of i	rated output c	urrent. Output	t set-point:
					than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ove 100V.		
12.Start up delay		Sec	Less than 6 Se	c							-	
13.Hold-up time	-	mS				16r	ms typical, rat	ed output pov	wer			
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)				d output curre								
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
						out current, fol				2.0	20	
5.Temperature coefficient		PPM/°C				it current, follo						
6.Temperature stability						owing 30 min				oerature		
o.remperature stability						ated output cu						
7. Warm-up drift									÷.	лі.		
			150V~000V:L	.ess than +/-0.	15% 01 14teu 0	output current	over 50 minu	tes following	power on.			
ANALOG PROGRAMMING AND N	IONITORING (ISOLATED	FROM T	HE OUTPUT)									
1.Vout voltage programming			0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	Vout.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	out.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full s	scale, user sele	ctable. Accura	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm fulls	scale, user sele	ctable. Accura	acy and linear	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor			0~5V or 0~10	V, user selecta	able. Accuracy	: +/-0.5% of ra	ted Vout					
6.Output current monitor (*14)			0~5V or 0~10	V, user selecta	able. Accuracy	: +/-0.5 of rate	d lout.%.					
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPU		D 1					1.011.011 M	·	201/14	C: 1 C	. 10 . 1
1. Power supply OK #1 signal					· · ·					e: 30V, Maxim		nt: IUMA.
2. CV/CC signal										ink Current: 10		-
3. LOCAL/REMOTE Analog contro					5 5			,		or short. Loca		
4. LOCAL/REMOTE Analog signal					¥					ltage: 30V, Max		rrent: 10mA
5. ENABLE/DISABLE signal										er selectable lo	ogic.	-
6. INTERLOCK (ILC) control						gnal or dry cor						
7. Programmed signals			Two open dra	ain programm	able signals. N	laximum volta	age 25V, Maxi	mum sink curr	ent 100mA (S	hunted by 27V	zener)	
8. TRIGGER IN / TRIGGER OUT sign	als		Maximum lo	ow level inpu	it voltage = 0	.8V,Minimur	n high level	input voltage	e = 2.5V, Max	ximum high l	evel input =	5V positive
		-				f=1us Maxim	ium, Min del	ay between 2	2 pulses 1ms	5.		
9. DAISY_IN/SO control signal			· · · · · · · · · · · · · · · · · · ·		V/2~30V or dr	y contact.					-	
10. DAISY_OUT/PS_OK #2 signal			4~5V=OK, 0V	(500ohm imp	edance)=Fail					_		
FUNCTIONS AND FEATURES			Densible Unit	o 4 identical u	units in Master	/Slave mode. I	Refer to instru	ction manual.				
1. Parallel operation			Possible. UD t									
1. Parallel operation			· · ·	identical unit	s. Refer to inst	ruction manu	al.					
1. Parallel operation 2. Series operation		-	Possible. Two			ruction manu		turn-on and t	urn-off			
1. Parallel operation 2. Series operation 3. Daisy chain			Possible. Two Power suppli	es can be coni	nected in Dais	ruction manu y chain to syne	chronize theii			or the front par	pel	
1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control			Possible. Two Power suppli Limits the ou	es can be coni tput power to	nected in Dais a proggramm	ruction manu y chain to syn ied value. Proc	chronize theii gramming via	the communi	cation ports o	or the front par		
1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			Possible. Two Power supplie Limits the our Emulates seri	es can be con tput power to es resistance.	nected in Dais a proggramm Resistance rai	ruction manu y chain to syn ied value. Prog nge: 1~1000m	chronize their gramming via Ω. Programm	the communi ing via the cor	cation ports o mmunication	ports or the fr	ont panel.	viatho
1. Parallel operation 2. Series operation			Possible. Two Power supplie Limits the our Emulates seri Programmab	es can be con tput power to es resistance. le Output rise	nected in Dais a proggramm Resistance ran and Output fa	ruction manu y chain to syn ied value. Prog nge: 1~1000m	chronize their gramming via Ω. Programm	the communi ing via the cor	cation ports o mmunication		ont panel.	via the
1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control		 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	es can be con tput power to es resistance. le Output rise on ports or th	nected in Dais a proggramm Resistance ran and Output fa e front panel.	ruction manu y chain to syno ned value. Prog nge: 1~1000m all slew rate. Pr	chronize their gramming via Ω. Programm rogramming r	the communi ing via the cor ange: 0.0001~	cation ports c mmunication 999.99 V/mSe	ports or the fr	ont panel. Programming	
Parallel operation Series operation Jaisy chain Constant power control Output resistance control Selw rate control Arbitrary waveforms PROGRAMMING AND READBA		 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	es can be con tput power to es resistance. le Output rise on ports or th	nected in Dais a proggramm Resistance ran and Output fa e front panel.	ruction manu y chain to syno ned value. Prog nge: 1~1000m all slew rate. Pr	chronize their gramming via Ω. Programm rogramming r	the communi ing via the cor ange: 0.0001~	cation ports c mmunication 999.99 V/mSe	ports or the fr ec. or A/mSec.	ont panel. Programming	
Parallel operation Series operation Jaisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms PROGRAMMING AND READBA R\$232/485, Optional IEEE (*18) Interfaces)	 	Possible. Two Power supplii Limits the ou Emulates seri Programmab communicati Profiles of up 10	es can be cont tput power to es resistance. le Output rise on ports or th to 100 steps c 20	a proggramm Resistance ran and Output fa e front panel. can be stored i 30	rruction manu y chain to syno led value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co	chronize their gramming via Ω. Programm rogramming r ells. Activatio	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
Parallel operation Series operation Soluty chain Constant power control Solutput resistance control Solutput resistance control Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 1.Vout programming accuracy (*1	5) Interfaces)	 V	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate	es can be coni tput power to es resistance. le Output rise on ports or th to 100 steps c 20 d output volta	nected in Dais a proggramm Resistance rai and Output fi e front panel. can be stored i 30 age	ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
Parallel operation Series operation Joaisy chain Constant power control Soutput resistance control Sew rate control Arbitrary waveforms PROGRAMMING AND READBA RE3232/485, Optional IEEE (*18 Lout programming accuracy (*1	5) Interfaces)	 V	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua	es can be cont tput power to es resistance. le Output rise on ports or th to 100 steps o 20 d output volta l output curre	nected in Dais a proggramm Resistance rar and Output fr e front panel. can be stored in 30 age nt+0.2% of raf	rruction manu y chain to syno led value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
Parallel operation Series operation Jaisy chain Aconstant power control Soutput resistance control Selw rate control Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 Nout programming accuracy (*1 Sout programming resolution	5) Interfaces)	 V 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	es can be cont tput power to es resistance. le Output rise on ports or th to 100 steps o 20 d output volta l output volta	nected in Dais a proggramm Resistance rar and Output fr e front panel. can be stored in 30 age nt+0.2% of rar tage	ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
Parallel operation Series operation Solasy chain Constant power control Soluput resistance control Soluput resistance control Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 I.Vout programming accuracy (*1 S.Vout programming accuracy (*1 S.Vout programming resolution	5) Interfaces)	 V 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	es can be com tput power to es resistance. le Output rise on ports or th to 100 steps of 20 d output volta l output volta ed output vol ed output cur	nected in Dais a proggramm Resistance rai and Output f. e front panel. can be stored i 30 age nt+0.2% of rai tage rent	ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
Parallel operation Series operation Solay chain Constant power control Soluput resistance control Soluput resistance control Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*IB I.Vout programming accuracy (*1 S.Vout programming resolution 4.lout programming resolution S.Vout readback accuracy	5) Interfaces)	·····	Possible. Two Power supplie Limits the our Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat	es can be com tput power to es resistance. le Output rise on ports or th to 100 steps of 20 d output volta l output volta ed output volt ed output volta	nected in Dais a proggramm Resistance ran and Output fi e front panel. can be stored i 30 age nt+0.2% of ran tage rent age	ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.
I. Parallel operation Series operation J. Daisy chain Constant power control S. Output resistance control S. Output resistance control Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 I.Vout programming accuracy (*1 J.Vout programming resolution S.Vout readback accuracy (*14)	5) Interfaces) 5) 4)	·····	Possible. Two Power supplie Limits the our Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.002% of rate 0.002% of rate 0.005% of rated	es can be com tput power to es resistance. le Output rise on ports or th to 100 steps or 20 d output volta l output volta ed output volt ed output volt output volt output volt	nected in Dais a proggramm Resistance rar and Output fr efront panel. can be stored i 30 age nt+0.2% of rar tage rent age nt	ruction manu y chain to syn ied value. Prog ige: 1~1000m all slew rate. Pr n 4 memory co 40 red output cur	chronize thei gramming via Ω. Programm rogramming r ells. Activatio 60 rent	the communi ing via the cor ange: 0.0001~ n by command 80	cation ports c mmunication •999.99 V/mSe d via the comm 100	ports or the fr ec. or A/mSec. munication po 150	ont panel. Programming rts or by the fr 300	600
Parallel operation Series operation Solasy chain Constant power control Solutput resistance control Solutput resistance control Series operation Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*IB Nout programming accuracy (*1 Solut programming resolution Alout programming resolution Solut readback accuracy	 a) Interfaces) 5) 4) a) a) b) b)<td>·····</td><td>Possible. Two Power supplie Limits the our Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat</td><td>es can be com tput power to es resistance. le Output rise on ports or th to 100 steps of 20 d output volta l output volta ed output volt ed output volta</td><td>nected in Dais a proggramm Resistance ran and Output fi e front panel. can be stored i 30 age nt+0.2% of ran tage rent age</td><td>ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40</td><td>chronize their gramming via Ω. Programm rogramming r ells. Activatio 60</td><td>the communi ing via the con ange: 0.0001~ n by command</td><td>cation ports o mmunication 999.99 V/mSe d via the comm</td><td>ports or the fr ec. or A/mSec. munication po</td><td>ont panel. Programming rts or by the fr</td><td>ont panel.</td>	·····	Possible. Two Power supplie Limits the our Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat	es can be com tput power to es resistance. le Output rise on ports or th to 100 steps of 20 d output volta l output volta ed output volt ed output volta	nected in Dais a proggramm Resistance ran and Output fi e front panel. can be stored i 30 age nt+0.2% of ran tage rent age	ruction manu y chain to syn ed value. Prog nge: 1~1000m all slew rate. Pr n 4 memory co 40	chronize their gramming via Ω. Programm rogramming r ells. Activatio 60	the communi ing via the con ange: 0.0001~ n by command	cation ports o mmunication 999.99 V/mSe d via the comm	ports or the fr ec. or A/mSec. munication po	ont panel. Programming rts or by the fr	ont panel.

G*E***NESYS[™] 1kW/1.7kW SERIES SPECIFICATIONS**

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-o User presetab	down when p ble. Reset by A	ower supply o AC input recyc	hanges mode: le in autostart	from CV or P mode, by Po	ower Limit to wer Switch, by	CC mode or fro OUTPUT butt	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication
2.Over-voltage protection (OVP)			Output shut-	down. Reset k	by AC input re	cycle in autost	art mode, by	OUTPUT butte	on, by rear par	nel or by comr	nunication.	
3.Over -voltage programming range	2	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
 Over-voltage programming accur 	асу		+/-1% of rated	d output volta	age							
5.Output under voltage limit (UVL)								programming	. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection						y autostart mo	de.					
7. Output under voltage limit (UVL)			Prevents adju	istment of Vo	ut below limit							
8. Output under voltage protection	(UVP)		Prevents adju mode, by Pov	istment of Vo ver Switch, by	ut below limit OUTPUT butt	. P.S output tu ton, by rear pa	rns Off during nel or by com	g under voltag imunication.	e condition. R	eset by AC in	out recycle in a	autostart
FRONT PANEL												
1.Control functions			Multiple optio	ons with 2 End	coders							
			Vout/lout/Po	wer Limit mai	nual adjust							
			OVP/UVL/UVF	P manual adju	ıst							
						dback, OCL, El						
						LAN, IEEE, RS2	32,RS485,USB	or Optional c	ommunication	n interface.		
			Output ON/O									
						Baud Rate, Ad					_	
						tage/resistive			10K programm	ning		
						Voltage/Curre		g 5V/10V.				
2.Display						utput voltage						
						put current +/						
3.Front Panel Buttons Indications						MMUNICATION						
4. Front Panel Display Indications			Voltage, Curre (communicat	ent, Power, C\ ion), RS/USB/	/, CC, CP, Exter LAN/IEEE com	nal Voltage, E: munication, Ti	xternal Curre rigger, Load/S	nt, Address, LF Store Cell.	P, Autostart, S	afetstart, Fol	dback V/I, Rem	ote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 100%	bload.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (r	no condensat	ion).							
4.Storage humidity		%	10~95% RH (r	no condensati	ion).							
5.Altitude			-			ent derating 20	%/100m or Ta	derating 1°C/	100m above 2	00m Non or	erating: 40000)ft (12000m
			operating: ro		,, output curr			deruting i e/				
MECHANICAL				10 1 1 1	16 41 61	1		1.				
1.Cooling				57	nal fans. Air flo	ow direction: fi	rom Front pai	nel to power s	upply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 553.2	! (Including b	isbars and bu busbars and b	ousbars cove	er) (Refer to C	Dutline drawi	ing).		
4.Vibration			· · · · ·			t condition Ar	nex C - 2.1.3.	1				
5.Shock			Less than 20G	i, half sine, 11	mSec. Unit is ι	inpacked.						
SAFETY/EMC												
1.Applicable standards: S	afety G1kW/G1.7kW		UL61010-1, CS	5A22.2 No.610	010-1, IEC61010	D-1, EN61010-1						
1.1. Interface classification	1kW/1.7kW					5, J6, J7, J8 (ser se) are hazard					s) are Non Haza	ardous.
1.2 Withstand voltage C	1kW/1.7kW		Input - Grour 60V≤Vout≤10 Output & J8 Output & J8 100V <vout≤0< td=""><td>nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro</td><td>C 1min. Input – Outp J2, J3, J4, J ound: 1500VI s: Input – Out J2, J3, J4, J ound: 2500VI</td><td>ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9</td><td>e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J</td><td>, J4, J5, J6, J ation options) 2835VDC 1m 3, J4, J5, J6,</td><td>I7 & J9 (comr : 850VDC 1m in. J7 and J9 (co</td><td>nunication of in. mmunicatior</td><td>: 4242VDC 11 ptions): 4242 n options): 424</td><td>/DC 1min,</td></vout≤0<>	nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	C 1min. Input – Outp J2, J3, J4, J ound: 1500VI s: Input – Out J2, J3, J4, J ound: 2500VI	ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J	, J4, J5, J6, J ation options) 2835VDC 1m 3, J4, J5, J6,	I7 & J9 (comr : 850VDC 1m in. J7 and J9 (co	nunication of in. mmunicatior	: 4242VDC 11 ptions): 4242 n options): 424	/DC 1min,
1.3 Insulation resistance			100Mohm at 2	25°C, 70%RH.	Output to Gr	ound 500VDC						
2.Conducted emmision			IEC/EN61204-	3 Industrial e	nvironment, A	nnex H table I	H.1 , FCC Part	15-A, VCCI-A .				
			IEC/ENI61204	2 Inductrial o	-							
3.Radiated emission			TLC/LIN01204*	Sinuusinare	nvironment, A	Innex H table I	H.3 and H4, F	CC Part 15-A,	VCCI-A			

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, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz). *4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m. *5: Not including EMI filter innus furrent, less than 0.2mSec. *6: 85-132Vac or 170-265Vac. Constant input voltage. Measured at the sensing point in Remote Sense. *8: For 100-150V models: Measured with JETAR C-93170 (1:1) probe. For 200~600V models: 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. *12: From 90% to 10% of Rated Output Voltage. *13: For 100V 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. For other models, the ripple is measured at 10~100% 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. For other models, the ripple is measured at 10~100% 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. For other models, the ripple is measured at 10~100% 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. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of r

TDK·Lambda _____

GENESYS[™] 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		۷	10	20	30	40	60	80	100	150	300	600
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		V	10	20	30	40	60	80	100	150	300	600
					~265Vac, 47~							
1.Input voltage/freq. 3 phase, 3 wire	+ Ground (*4)		3-Phase, 480	V models: 342	~460Vac, 47~ ~528Vac, 47~ ~265Vac, 47~	63Hz (Covers	380/400/415/4	40/460/480Va	ic)			
2. Maximum Input current at 3-F	Phase, 200V models: Phase, 400V models: Phase, 480V models:		10A @ 200Va 5.5A @ 380Va	c IC		· · · · · · · · · · · · · · · · · · ·						
1-F	Phase, 480V models: Phase, 200V models:		5.5A @ 380Va 16.5A @ 200V For 3-Phase:	ac	0Vac, rated or	itput power						
3.Power Factor (Typ) —					, rated output							
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		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volt	age					1		
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		PPM/°C			ut voltage, fo							
6.Temperature stability					hrs interval fo					ıp.		
7. Warm-up drift	(*10)				utput voltage			1		-	-	-
8.Remote sense compensation/wire	("10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	ll load (*11)	mS	30 50	30 50	30 80	30 80	50 80	50 100	50 100	50	50 100	100 200
10 Down-prog response time:	ll load (*11) load (*12)	mS mS	50 450	50 600	80	80 900	80	100	2100	2000	3200	3100
11.Transient response time	10au (* 12)	mS	Time for outp	out voltage to	recover withi s than 1mS, fo	n 0.5% of its r	ated output fo	or a load chan	ge 10~90% of	rated output		
12.Start up delay		Sec	Less than 6 Se					<u> </u>				
CONSTANT CURRENT MODE		V		20	30	40	(0	00	100	150	200	(00
1.Max. Line regulation (*7)		V	10	d output curr		40	60	80	100	150	300	600
2.Max. Load regulation (*13)				d output curr								
3.Ripple r.m.s. @ rated voltage. 3-Pha	se (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Pha		mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fi	rom rated out om rated outp	put current, fo	llowing 30 m		ıp.			
6.Temperature stability					nrs. interval fo					perature.		
7. Warm-up drift			10V~100V mo	odel: Less tha	n +/-0.25% of .15% of rated	rated output o	urrent over 3	0 minutes foll	owing power			-
ANALOG PROGRAMMING AND MON	ITORING (ISOLATED											
1.Vout voltage programming				V or 0~10V. u	ser selectable.	Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15)					ser selectable.							
3.Vout resistor programming					scale, user sel							
4.lout resistor programming (*15)			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	acy and linea	rity: +/-0.5% c	f rated lout.			
5.Output voltage monitor			0~5V or 0~10	V, user select	able. Accuracy	/: +/-0.5%.						
6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accuracy	/: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLATEI	D FROM THE OUTPU	T)										
1. Power supply OK #1 signal			Power supply	output mon	itor. Open coll	ector, Output	On: On. Outp	ut Off: Off. Ma	ximum Volta	ge: 30V. Maxir	num Sink Curi	rent: 10mA.
2. CV/CC signal			,		ctor. CC mode					-		
3. LOCAL/REMOTE Analog control				· ·	gramming co							open.
4. LOCAL/REMOTE Analog signal			analog progra	amming contr	ol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma	ximum Sink Cu	urrent: 10m/
5. ENABLE/DISABLE signal			Enable/Disab	le PS output	by electrical si	ignal or dry co	ntact. 0~0.6V	or short, 2~30)V or open. U	ser selectable	logic.	
6. INTERLOCK (ILC) control					by electrical si							
7. Programmed signals					hable signals. I							
8. TRIGGER IN / TRIGGER OUT signals			Maximum lo	ow level inp	ut voltage = ninimum. Tr,	0.8V,Minimu	m high leve	input voltag	e = 2.5V, Ma	aximum high	level input	= 5V positi
9. DAISY_IN/SO control signal					6V/2~30V or d		nam, win de	ay between	∠ puises im	15.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal					pedance)=Fail							
			. 51-01,01	,50001111111	peddincej—i dil							
FUNCTIONS AND FEATURES												
		· · · · ·	Decelle I - · · ·	a Alden !!	unite in A4	v/Claura and	Doforto					
1. Parallel operation					units in Maste			uction manua				
2. Series operation			Possible. Two	identical uni	ts. Refer to ins	truction man	ual.					
2. Series operation 3. Daisy chain			Possible. Two Power suppli	identical uni es can be con	ts. Refer to ins nected in Dai	truction man sy chain to syr	ual. Ichronize the	ir turn-on and	turn-off.	or the front ~	anal	
2. Series operation 3. Daisy chain 4. Constant power control			Possible. Two Power suppli Limits the ou	identical uni es can be con tput power to	ts. Refer to ins nected in Dai: a proggramr	truction man sy chain to syr ned value. Pro	ual. Ichronize the gramming vi	ir turn-on and a the commun	turn-off. ication ports			
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			Possible. Two Power suppli Limits the ou Emulates seri	identical uni es can be con tput power to es resistance	ts. Refer to ins nected in Dai	truction man sy chain to syr ned value. Pro nge: 1~1000r	ual. hchronize the gramming vi nΩ. Programr	ir turn-on and a the commun ning via the co	turn-off. ication ports mmunication	n ports or the	front panel.	ng via the
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control			Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	identical uni es can be con tput power to es resistance le Output rise on ports or th	ts. Refer to ins nected in Dai o a proggramr . Resistance ra	truction man sy chain to syr ned value. Pro nge: 1~1000r fall slew rate. F	ual. nchronize the gramming vi nΩ. Programr Programming	ir turn-on and a the commun ning via the cc range: 0.0001	turn-off. ication ports mmunication ~999.99 V/mS	n ports or the Sec. or A/mSec	front panel. . Programmir	5
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up	identical uni es can be con tput power to es resistance le Output rise on ports or th	ts. Refer to ins nected in Dais a proggramm Resistance ra and Output f he front panel can be stored	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. gramming vi gramming vi nΩ. Programm Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmir	5
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK			Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	identical uni es can be con tput power to es resistance le Output rise on ports or th	ts. Refer to ins nected in Dai: o a proggramr Resistance ra e and Output f ne front panel	truction man sy chain to syr ned value. Pro nge: 1~1000r fall slew rate. F	ual. nchronize the gramming vi nΩ. Programr Programming	ir turn-on and a the commun ning via the cc range: 0.0001	turn-off. ication ports mmunication ~999.99 V/mS	n ports or the Sec. or A/mSec	front panel. . Programmir	5
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2		 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10	identical uni es can be com tput power to es resistance le Output rise ion ports or th to 100 steps	ts. Refer to ins inected in Dai: o a proggramm Resistance ra e and Output f ne front panel can be stored 30	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. gramming vi gramming vi nΩ. Programm Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front pane
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*16)		 V	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate	identical uni es can be con tput power to es resistance le Output riso on ports or th to 100 steps 20 d output volt	ts. Refer to ins inected in Dai: o a proggramm Resistance ra e and Output f ne front panel can be stored 30	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front pane
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*15) 2.lout programming accuracy (*15)		 V	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua	identical uni es can be con tput power to es resistance le Output riso on ports or th to 100 steps 20 d output volt	ts. Refer to ins inected in Dai: o a proggramm Resistance ra e and Output f he front panel can be stored 30 age ent+0.2% of ra	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front pane
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*15) 3.Vout programming resolution		 V 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	identical uni es can be con tput power to es resistance le Output riss on ports or th to 100 steps 20 d output volt l output volt l output volt	ts. Refer to ins inected in Dai: a proggramm Resistance ra and Output f can be stored 30 age ent+0.2% of ra ltage	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front panel
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution		 V 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	identical uni es can be con tput power to es resistance le Output riss on ports or th to 100 steps 20 d output volt l output volt l output volt ed output vo	ts. Refer to ins inected in Dai: o a proggramm Resistance ra e and Output f he front panel can be stored 30 age ent+0.2% of ra ltage rrrent	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front panel
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy		 V 	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rate 0.002% of rate	identical uni es can be con tput power to es resistance le Output riss on ports or th to 100 steps 20 d output volt l output volt l output curre ed output vol ed output vol	ts. Refer to ins inected in Dai: > a proggramm Resistance ra and Output f he front panel can be stored 30 age ent+0.2% of ra itage rrent tage	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by the	front panel
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution	20) Interfaces)	 V -	Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rate 0.002% of rate	identical uni es can be con tput power to es resistance le Output riss on ports or th to 100 steps 20 d output volt l output volt l output volt ed output vo	ts. Refer to ins inected in Dai: > a proggramm Resistance ra and Output f he front panel can be stored 30 age ent+0.2% of ra itage rrent tage	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o 40	ual. hchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by commar	turn-off. ication ports mmunicatior ~999.99 V/mS d via the com	n ports or the Sec. or A/mSec nmunication p	front panel. Programmir orts or by 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)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		Α	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
			3-Phase, 200	V models: 170	~265Vac, 47~	63Hz (Covers 2	200/230Vac)			1	1	1
1.Input voltage/freg. 3 phase, 3 wire	+ Ground (*4)					63Hz (Covers						
······································						63Hz (Covers			ac)			
21	Phase, 200V models:		12.5A @ 200		~265VaC, 4/~	63Hz (Covers 2	200/208/230/2	240VaC)				
	Phase, 200V models: Phase, 400V models:		6.5A @ 200V									
	Phase, 480V models:		6.5A @ 380Va									
	Phase, 200V models:		21A @ 200Va									
3.Power Factor (Typ)					0Vac, rated o	utput power.						
			For 1-Phase:	0.99 @ 200Va	, rated outpu	t power.						
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/	Ą								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volt	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		PPM/°C				llowing 30 mi						
6.Temperature stability						llowing 30 mi				np.		
7. Warm-up drift						+2mV over 30	1		1			
8.Remote sense compensation/wire	(*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
10 Down-prog response time:	II load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No	o load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time		mS				in 0.5% of its r r models up to				rated output	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 Se		5 (1011 1115,10	i mouels up a	o una meruam	9 1001.21113,1	or models up	010 1001.		
			1	-	20	40	60		100	150	200	600
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)				d output curr								
3.Ripple r.m.s. @ rated voltage. 3-Pha	aco (*14)	mA	≤800	d output curr ≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Pha		mA	≤1200	≤430	≤300	≤130	≤200	≤100	≤43 ≤60	≤30	≤12 ≤12	≤3
	136 (14)					put current, fo	1	1	1	240	212	20
5.Temperature coefficient		PPM/°C				ut current, fol						
6.Temperature stability						llowing 30 mi				perature.		
						rated output o						
7. Warm-up drift			150V~600V: l	ess than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MON	NITORING (ISOLATED	D FROM 1	THE OUTPUT)									
1.Vout voltage programming			1	V or 0~10V, u	ser selectable	. Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
								0.4% of rated				
2.lout voltage programming (*15)								rity: +/-0.5% c	of rated Vout			
2.lout voltage programming (*15) 3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel		racy and linea					
						ectable. Accu ectable. Accu						
3.Vout resistor programming			0~100%, 0~5	/10Kohm full		ectable. Accu ectable. Accu						
3.Vout resistor programming 4.lout resistor programming (*15)			0~100%, 0~5 0~5V or 0~10	/10Kohm full IV, user select	scale, user sel	ectable. Accu ectable. Accu y: +/-0.5%.						
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)	D FROM THE OUTPU		0~100%, 0~5 0~5V or 0~10	/10Kohm full IV, user select	scale, user sel able. Accurac	ectable. Accu ectable. Accu y: +/-0.5%.						
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE	D FROM THE OUTPU		0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	/10Kohm full IV, user select IV, user select	scale, user sel able. Accurac able. Accurac	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%.	racy and linea	rity: +/-0.5% c	of rated lout.	qe: 30V. Maxin	num Sink Curr	ent: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE) 1. Power supply OK #1 signal	D FROM THE OUTPU	 T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	/10Kohm full IV, user select IV, user select y output mon	scale, user sel able. Accurac able. Accurac itor. Open col	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%.	racy and linea	rity: +/-0.5% c	of rated lout. aximum Volta	ge: 30V, Maxin Sink Current: '		ent: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE) 1. Power supply OK #1 signal	D FROM THE OUTPU	 T) 	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monit	/10Kohm full IV, user select IV, user select y output mon or. Open colle	scale, user sel able. Accurac able. Accurac itor. Open col ector. CC mode	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod	: On: On. Outp e: Off. Maximu	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30	of rated lout. aximum Volta DV, Maximum	ge: 30V, Maxin Sink Current: [•] V or short. Loc	10mA.	
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE 1.Power supply OK #1 signal 2. CV/CC signal	D FROM THE OUTPU	 T) 	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monit Enable/Disab	/10Kohm full IV, user select IV, user select y output mon or. Open colle ole analog pro	scale, user sel able. Accurac able. Accurac itor. Open col ector. CC mode ogramming co	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ontrol by elect	: On: On. Outp e: Off. Maximu rical signal or	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30 dry contact. R	of rated lout. aximum Volta DV, Maximum emote: 0~0.6	Sink Current:	10mA. al: 2~30V or o	pen.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	D FROM THE OUTPU	 T) 	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monit Enable/Disat analog progr	/10Kohm full IV, user select IV, user select y output mon or. Open colle ole analog pro amming contr	scale, user sel able. Accurac able. Accurac itor. Open coll ctor. CC mode ogramming co ol monitor sig	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod nntrol by elect nal. Open collo	COn: On. Outp c: Off. Maximu rical signal or ector. Remote:	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off	of rated lout. aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo	Sink Current: V or short. Loc	10mA. al: 2~30V or o kimum Sink Cu	pen.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	D FROM THE OUTPU	 T) 	0~100%, 0~5 0~5V or 0~1C 0~5V or 0~1C 0~5V or 0~1C CV/CC Moniti Enable/Disat analog progr Enable/Disat Enable/Disat	/10Kohm full IV, user select IV, user select y output mon or. Open colle ole analog pro amming contr ole PS output ole PS output	scale, user sel able. Accuracy able. Accuracy itor. Open coll cotor. CC mode gramming co ol monitor sig by electrical s by electrical s	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by elect nal. Open colli ignal or dry co ignal or dry co	COn: On. Outp e: Off. Maximu rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 31 dry contact. R On. Local: Off or short, 2~39 e: 0~0.6V or sl	of rated lout. aximum Volta DV, Maximum emote: 0~0.6 . Maximum Vo DV or open. U nort. Local: 2~	Sink Current: V or short. Loc Itage: 30V, May ser selectable 30V or open.	10mA. al: 2~30V or o kimum Sink Cu logic.	pen.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE 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 THE OUTPU	 T) 	0~100%, 0~5 0~5V or 0~1C 0~5V or 0~1C 0~5V or 0~1C CV/CC Monit Enable/Disat analog progr Enable/Disat Enable/Disat Two open dra	/10Kohm full IV, user select IV, user select y output mon or. Open colle ole analog pro amming contr ole PS output ole PS output ain programm	scale, user sel able. Accuracy able. Accuracy itor. Open coll actor. CC mode gramming co ol monitor sig by electrical s by electrical s bable signals.	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ontrol by elect nal. Open collik ignal or dry cc ignal or dry cc Maximum vol	COn: On. Outp e: Off. Maximu rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3/ dry contact. R On. Local: Off ' or short, 2~3/ e: 0~0.6V or sl imum sink cu	of rated lout. aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo DV or open. U nort. Local: 2~ rrent 100mA (Sink Current: V or short. Loc Itage: 30V, Max ser selectable 30V or open. Shunted by 27	10mA. al: 2~30V or o kimum Sink Cu logic. V zener)	pen. rrent: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATE 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		 T) 	0~100%, 0~5 0~5V or 0~1C 0~5V or 0~1C 0~5V or 0~1C Enable/Disat Enable/Disat Enable/Disat Two open dra Maximum la	/10Kohm full W, user select W, user select voutput mon or. Open colle ble analog pro amming contr ble PS output ble PS output ain programm pw level inpo	scale, user sel able. Accuracy able. Accuracy itor. Open coll coror. CC mode ogramming co ol monitor sig by electrical s by electrical s hable signals. ut voltage =	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by elect nal. Open colle ignal or dry cc ignal or dry cc Maximum vol	racy and linea con: On. Outp e: Off. Maximu rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level	rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off ' or short, 2~31 e: 0~0.6V or s1 imum sink cuu i nout voltaa	of rated lout. aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo DV or open. U nort. Local: 2~ Inort. Local: 2~ Inort. 100mA (at = 2.5 V. Ma	Sink Current: V or short. Loc Itage: 30V, May ser selectable 30V or open. Shunted by 27 aximum high	10mA. al: 2~30V or o kimum Sink Cu logic. V zener)	pen. rrent: 10mA.
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3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATEI 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal 6.INTERLOCK (ILC) control 7. Programmed signals 8.TRIGGER IN / TRIGGER OUT signals 9.DAISY_IN/SO control signal 10.DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1.Parallel operation 2.Series operation 3.Daisy chain 4.Constant power control 5.Output resistance control 6.Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*2 1.Vout programming accuracy (*16) 2.Jout programming resolution	(USB, LAN, 20) Interfaces)		0100%, 05 05V or 01C 05V or 01C 05V or 01C Power supply CV/CC Moniti Enable/Disat analog progr. Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Possible. Up Possible. Up Possible. Up Possible. Up Possible. Up Possible. Up Possible. Up Possible. Up Possible. Up Possible. Ser Programmat communicat Programmat 0.05% of rate 0.002% of rat 0.002% of rate 0.002% of rate 0.002% of rate 0.002% of rate 0.002% of rate 0.002% of rate	/10Kohm full //10Kohm full V, user select V, user select V, user select V, user select V, user select V, user select V, user select en analog pro- amming contro- ble PS output e PS output in programm vw level inpi vw level i	scale, user sel able. Accurac able. Accurac able. Accurac able. Accurac able. Accurac able. Accurac itor. Open col ctor. CC mode gramming co ol monitor sig by electrical s able signals. ut voltage = ninimum. Tr, 5V/2~30V or d pedance)=Fai units in Maste ts. Refer to ins nected in Dai o a proggram Resid Output te front panel can be stored 30 age ent+0.2% of rat tage	ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by elect al. Open collu- ignal or dry cc ignal or dry cc ignal or dry cc Maximum vol gnal or dry cc Maximum vol signal or dry cc signal or dry cc	CON: On. Outpp e: Off. Maxim rical signal or actor. Remote: ontact. O-0.69 untact. Remote actor. Rem	rity: +/-0.5% c ut Off: Off. Ma m Voltage: 31 dry contact. R On. Local: Off or short, 238 e: 00.6V or sl imum sink cuc input voltaci lay between uction manua ir turn-on anda a the commur ning via the cc range: 0.0001 in by commar	of rated lout. aximum Volta JV, Maximum Volta JV, Maximum Vo DV or open. U oort. Local: 2- rent 100m d. ge = 2.5V, Ma 2 pulses Int L turn-off. isication ports mmunication ~999.99 V/m ⁵ id via the com	Sink Current: V or short. Loc Itage: 30V, Maa ser selectable 30V or open. Shunted by 27 aximum high is. or the front pa n ports or the f isec. or A/mSec imunication p	IOMA. al: 2~30V or o kimum Sink Cu logic. V zener) Ievel input = neel. iront panel. . Programmin orts or by the	pen. rrent: 10mA. = 5V positive g via the front panel.

G^ENESYS[™] 5kW SERIES SPECIFICATIONS

OUTPUT RATING		6	10	20.054	20.171	40.101	50.101	(0.05	00.17	100 71	150.01	206.25	200 17	100.10	500.11	(0.5.6					
1.Rated output voltage(*1)		G	10-500 10	20-250 20	30-170 30	40-125 40	50-100 50	60-85 60	80-65 80	100-50 100	150-34 150	200-25 200	300-17 300			600-8. 600					
2.Rated output current (*2)		A	500 (*3)	250	170	125	100	85	65	50	34	200	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		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600					
1 Input voltago/frag 2 share 2	iro Ground (*4)						~63Hz (Co			(20)											
1.Input voltage/freq. 3 phase, 3 wi	re + Ground (*4)						7~63Hz (C) 7~63Hz (C)				80Vac)			400 500 66 13 10 8 5200 5000 51 400 500 66 92 92 92 400 500 66 400 500 66 400 500 66 400 400 400 5 5 1 100 100 11 150 200 21 4000 4000 30 put current. Output set-po 90 400 500 66 100 100 11 150 200 21 4000 500 66 2000 21 10 4000 500 66							
2. Maximum Input current at	3-Phase, 200V models:		17.5A @ 2	00Vac		20100, 17	00112 (01		100, 110,	10, 100, 1	sorac,										
100% load	3-Phase, 400V models:		9.2A @ 38																		
3.Power Factor (Typ)	3-Phase, 480V models:		9.2A @ 38 0.94 @ 20		, rated ou	tout powe	er.														
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	50A																	
CONSTANT VOLTAGE MODE		۷	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)	 mV			out voltag		75	75	80	90	120	200	200	400	450	480					
3.Ripple and noise (p-p, 20MHz) (* 4.Ripple r.m.s. 5Hz~1MHz (*9)	"9)	mV mV	75 8	75 10	75 12	75 12	75 12	12	15	90	120 20	45	60			100					
5.Temperature coefficient							following				20	-15	00	00	00	100					
6.Temperature stability						-				-	nt line, loa	d & temp.									
7. Warm-up drift							je+2mV ov														
8.Remote sense compensation/wi	ire (*10)	V	2	2	5	5	5	5	5	5	5	5	5			5					
9.Up-prog. Response time (*11)	- 111 - 1004 ()	mS	30	30	30	30	50	50	50	50	50	50	50			100					
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100			200					
	No load (*12)	mS	300 Time for	600 Sutput vo	800 800 kare to re	900 900 geover wit	950 hin 0.5% c	1000 of its rated	1200	1900 or a load c	2000 hange 10-	2500 90% of ra	3000			3000 at-point					
11.Transient response time		mS	10~100%	, Local sei	nse. Less t	han 1mS,	for model	s up to an	d includin	g 100V. 2r	nS, for mo	dels abov	e 100V.		outputs	- point					
12.Start up delay		Sec	Less than	5 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	rated out	put currer	nt.															
2.Max. Load regulation (*13)					put currer	r			.=-												
3.Ripple r.m.s. @ rated voltage. B.V	V 5Hz~1MHz (*14)	mA	≤1200 10V~100	≤600 / 100P	≤300	≤150	≤130 utput curr	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8					
5.Temperature coefficient		PPM/°C					tput curre														
6.Temperature stability									-		nt line, loa	d & tempe	erature.								
7 Warm un drift			10V~100	/ model: L	ess than +	⊦/-0.25% c	of rated ou	itput curre	ent over 3	0 minutes	following	power or	ı.								
7. Warm-up drift			150V~60	0V: Less th	nan +/-0.1	5% of rate	d output o	current ov	er 30 min	utes follov	ving powe	r on.									
ANALOG PROGRAMMING AND M	IONITORING (ISOLATED	FROM T	HE OUTPU	JT)																	
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, use	r selectab	le. Accura	cy and line	earity: +/-	0.15% of ra	ated Vout.										
2.lout voltage programming (*15))						le. Accura	-													
3.Vout resistor programming											5% of rate										
4.lout resistor programming (*15) 5.Output voltage monitor							electable. acy: +/-0.5			rity: +/-0.	5% of rate	d lout.									
6.Output current monitor (*15)							acy: +/-0.5														
SIGNALS AND CONTROLS (ISOLA				, ase			.,, 0.5														
1. Power supply OK #1 signal	IED FROM THE OUTPOT		Powersu	nnly outr	ut monito	r Open c															
2. CV/CC signal								utput Op	On Outr	ut Off- Of	f Maximuu	n Voltage	· 30V May	imum Sin	k Current	10mA					
3. LOCAL/REMOTE Analog control			CV/CC M	onitor. On		or. CC mo		•			f. Maximui e: 30V, Ma				k Current:	10mA.					
15. LOCKE, NEWOIL ANALOY CONTON							de: On. C\	/ mode: O	ff. Maximu	um Voltag	f. Maximui e: 30V, Ma ct. Remote	ximum Siı	nk Curren	t: 10mA.							
4. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal			Enable/D analog pr	isable ana ogrammii	alog progi ng control	ramming monitor s	de: On. C\ control by ignal. Ope	/ mode: O electrical n collecto	ff. Maximu signal or r. Remote:	um Voltag dry conta On. Local:	e: 30V, Ma ct. Remote Off. Maxir	ximum Sii e: 0~0.6V c num Volta	nk Curren or short. L ige: 30V, N	t: 10mA. ocal: 2~30 laximum S	IV or open						
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal			Enable/D analog pr Enable/D	isable ana ogrammii isable PS	alog prog ng control output by	ramming monitor s electrica	de: On. C\ control by ignal. Ope I signal or	/ mode: O electrical n collecto dry conta	ff. Maximu signal or r. Remote: ct. 0~0.6V	um Voltag dry conta On. Local or short,	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	ximum Sii e: 0~0.6V c num Volta open. User	nk Curren or short. L ige: 30V, M r selectabl	t: 10mA. ocal: 2~30 laximum S le logic.	IV or open						
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control			Enable/D analog pr Enable/D Enable/D	isable ana ogrammii isable PS isable PS	alog progi ng control output by output by	ramming monitor s electrica electrica	de: On. C\ control by ignal. Ope I signal or I signal or	/ mode: O electrical n collecto dry conta dry conta	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote	um Voltag dry contac On. Local or short, e: 0~0.6V	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L	ximum Sii :: 0~0.6V c num Volta open. User ocal: 2~30	nk Curren or short. L ige: 30V, M r selectabl IV or open	t: 10mA. ocal: 2~30 laximum S le logic. i.	IV or open iink Currer						
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals			Enable/D analog pr Enable/D Enable/D Two oper	isable and ogrammin isable PS isable PS n drain pro	alog prog ng control output by output by ogrammal	ramming monitor s electrica electrica ble signal	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu	/ mode: O electrical n collecto dry conta dry conta m voltage	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max	um Voltag dry conta On. Local: or short, e: 0~0.6V imum sinl	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1	ximum Sii :: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	nk Curren or short. L ge: 30V, M r selectab IV or open unted by	t: 10mA. ocal: 2~30 laximum S le logic. I. 27V zener	IV or open iink Currer)	it: 10mA					
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control			Enable/D analog pr Enable/D Enable/D Two oper Maximu	isable and ogrammin isable PS isable PS n drain pro m low le	alog progi ng control output by output by ogrammal vel input	ramming of monitor s electrical electrical ble signal: voltage	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V,Mi	/ mode: O electrical n collecto dry conta dry conta m voltage nimum h	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max sigh level	um Voltag dry contac On. Local: or short, e: 0~0.6V imum sinl input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L	ximum Sii 20~0.6V o num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Curren or short. L uge: 30V, M r selectab IV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. I. 27V zener	IV or open iink Currer)	it: 10mA					
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal			Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri	isable and ogrammii isable PS isable PS n drain pro m low le edge trig cal Voltag	alog progi ng control output by output by ogrammal vel input gger: tw= ge: 0~0.6V	ramming monitor s electrical electrical ble signal: voltage =10us min /2~30V or	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V, Mi nimum. T dry conta	/ mode: O electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max sigh level	um Voltag dry contac On. Local: or short, e: 0~0.6V imum sinl input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sii 20~0.6V o num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Curren or short. L uge: 30V, M r selectab IV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. I. 27V zener	IV or open iink Currer)	it: 10mA					
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign			Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri	isable and ogrammii isable PS isable PS n drain pro m low le edge trig cal Voltag	alog progi ng control output by output by ogrammal vel input gger: tw=	ramming monitor s electrical electrical ble signal: voltage =10us min /2~30V or	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V, Mi nimum. T dry conta	/ mode: O electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max sigh level	um Voltag dry contac On. Local: or short, e: 0~0.6V imum sinl input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sii 20~0.6V o num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Curren or short. L uge: 30V, M r selectab IV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. I. 27V zener	IV or open iink Currer)	it: 10mA					
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal			Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri	isable and ogrammii isable PS isable PS n drain pro m low le edge trig cal Voltag	alog progi ng control output by output by ogrammal vel input gger: tw= ge: 0~0.6V	ramming monitor s electrical electrical ble signal: voltage =10us min /2~30V or	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V, Mi nimum. T dry conta	/ mode: O electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max sigh level	um Voltag dry contac On. Local: or short, e: 0~0.6V imum sinl input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sii 20~0.6V o num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Curren or short. L uge: 30V, M r selectab IV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. I. 27V zener	IV or open iink Currer)	it: 10mA					
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation			Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri 4~5V=OF	isable and ogrammin isable PS isable PS n drain pro m low leve edge trig cal Voltag c, oV (5000	alog progr ng control output by output by ogrammal vel input gger: tw= ge: 0~0.6V ohm impe	amming monitor s electrical electrical ble signal: voltage =10us min /2~30V or dance)=F	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V,Mi nimum. T dry conta ail	r mode: O electrical n collecto dry conta dry conta m voltage inimum h r,Tf=1us h ict.	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max high level Maximun	um Voltag dry conta On. Local: or short, e: 0~0.6V imum sinl input vo n, Min de	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sii :: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L ige: 30V, M r selectabl W or open unted by imum hi <u>c</u> ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. l. 27V zener gh level ir	W or open iink Currer) nput = 5\	it: 10mA					
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			Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri 4~5V=OP Possible. Possible.	isable and ogrammin isable PS isable PS n drain pro- m low leved edge trig- cal Voltage c, oV (5000 Up to twe Two ident	alog progi ng control output by ogrammal vel input gger: tw= gger: 0~0.6V ohm impe	amming monitor s electrical electrical ble signal: voltage =10us min /2~30V or dance)=F entical un Refer to i	de: On. CV control by ignal. Ope I signal or I signal or s. Maximu = 0.8V,Mi nimum. T dry conta ail its in Mast nstructior	r mode: O electrical n collecto dry contai dry contai m voltage inimum h r,Tf=1us h ict. er/Slave m n manual.	ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level Maximun	um Voltag dry contar On. Local: 'or short, e: 0~0.6V imum sinl input vo n, Min de	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L < current 1 Itage = 2 Iay betwee ction man	ximum Sii :: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi seen 2 pul ual. For m	nk Curren or short. L ige: 30V, M r selectabl W or open unted by imum hi <u>c</u> ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. l. 27V zener gh level ir	W or open iink Currer) nput = 5\	it: 10mA					
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GENESYS[™] 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection							y changes cycle in auto									
2.Over-voltage protection (OVP)							recycle in a									
3.Over -voltage programming rar		V					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.
Over-voltage programming acc			+/-1% of r													
5.Output under voltage limit (UVI	_)						mit. Does n		n analog p	orogrammi	ng. Prese	t by front	panel or c	ommunica	ition port.	
6.Over temperature protection							/ by autosta	art mode.								
7. Output under voltage limit (UV	_)		Prevents													
8. Output under voltage protection	on (UVP)		Prevents a mode, by	adjustmer Power Sw	nt of Vout vitch, by C	below lir OUTPUT b	nit. P.S outp utton, by re	out turns C ear panel c	off during or by comr	under volt nunicatior	age cond 1.	ition. Rese	et by AC in	put recycl	e in autos	.art
FRONT PANEL																
1.Control functions			Multiple of	ptions wi	ith 2 Enco	ders										
			Vout/lout													
			OVP/UVL/													
							oldback, C									
							of LAN, IEE	E,RS232,R	5485,USB	or Optiona	ll commu	nication in	iterface.			
			Output O				of Baud Ra	to Addros	c ID and c	ommunic	tionland					
							of Baud Ra Voltage/res						~			
							of Voltage/				K/TOK pro	grammin	<u>y</u>			
2.Display							d output vo			50/100.						
							output curr									
3.Front Panel Buttons Indications							OMMUNIC			N,CONFIGL	JRATION,	SYSTEM, S	EQUENCE	R.		
4. Front Panel Display Indications			Voltage, C (commun	urrent, Po ication), R	ower, CV, (S/USB/LA	CC, CP, Ex N/IEEE co	ternal Volta ommunicat	age, Exteri ion, Trigge	nal Curren er, Load/St	t, Address, tore Cell.	, LFP, Auto	ostart, Safe	etstart, Fo	ldback V/I,	Remote	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 1	00% load.								-				
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% F	RH (no con	densatio	n).										
4.Storage humidity		%	10~95% F	H (no con	densatio	n)										
5.Altitude (*17)							urrent derat	ing 2%/10	0m or Ta	lerating 1°	C/100m a	hove 2000)m Non o	nerating 4	0000ft (17	(000m)
			operating	. 1000011	(500011),	output et				icruting i	C/ 1001114	5070 2000		peruting.	000011(12	
MECHANICAL						10	a b		-	1.						
1.Cooling					/		flow direct	ion: from	· ·			ear				
2.Weight		kg	2.7kW/3.4			-				ss than 7.5	kg.					
3.Dimensions (WxHxD)		mm	W: 423, 1	H: 43.6, D): 553.2 (Includin	busbars a g busbars	and busb	ars cove		o Outline	drawing	ı).			
4.Vibration			MIL-810G	method	514.6, Pro	cedure I,	test condit	ion Annex	C - 2.1.3.1							
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit	is unpacke	d								
SAFETY/EMC																
1. Applicable standards:	Safety		UL61010-	I, CSA22.2	2 No.61010	0-1, IEC61	010-1, EN61	010-1.								
1.1. Interface classification			Vout≤50V 60≤Vout≤	Models: 0 600V Mod	Output, J1 dels: Outp	1, J2, J3, J4 out & J8 (s	4, J5, J6, J7, ense) are h	J8 (sense) azardous,	& J9 (comi J1, J2, J3, .	municatior 14, J5, J6, J7	n options) 7 & J9 (cor	are Non H nmunicati	lazardous ion optior	is) are Non	Hazardou	IS.
1.2 Withstand voltage			Input - G 60V≤Vou Output & 0utput & 100V <vo Output &</vo 	round: 28 t≤100V № J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens	35VDC 1 lodels: Ir e) - J1, J2 e) - Grou Models: 1 e) - J1, J2 e) - Grou	1min. 1put – Ou 2, J3, J4, 1nd: 1500 Input – C 2, J3, J4, 1nd: 2500	J8 (sense J5, J6, J7 VDC 1min Putput & J8 J5, J6, J7 VDC 1min	(sense), J & J9 (cor , Input - C (sense), & J9 (cor	1, J2, J3, nmunicat around: 2 J1, J2, J3	J4, J5, J6 tion optior 835VDC 1 , J4, J5, J	6, J7 & J9 1s): 850V Imin. 6, J7 and	(commu DC 1min. J9 (comr	nication o	options): 4	242VDC	
1.3 Insulation resistance			100Mohn	n at 25°C, 3	70%RH. C	Output to	Ground 50	OVDC								
2.Conducted emmision			IEC/EN612	204-3 Indu	ustrial env	/ironmen	t, Annex H	able H.1 ,	FCC Part 1	5-A, VCCI-	Α.					
3.Radiated emission			IEC/EN612	204-3 Indu	ustrial env	/ironmen	t, Annex H	able H.3	and H4, FC	C Part 15-	A, VCCI-A					
4. EMC compliance	EMC(*18)		IF C (FNICA)	204-3 Indu												

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

NOTES:

NOTES: * 1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage. * 2: Minimum current is guaranteed to maximum 0.2% of rated output current. * 3: G58W : Derate 5A/1°C above 40°C. * 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase * 5: 3-Phase 200V models: At 200Vac input voltage. 3-Phase 400VA (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-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe. * 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 rating, constant input voltage. * 14: For 10W model, the ripple is measured at 10~100% 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. By 512x-10MHz. * 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 10W model in the sensing point. * 17: For 10W model inderating 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 400A up to 40°C and 450A up to 30°C. * 20 For 10W model only: Max, output current for using IEEE is 400A up to 40°C and 450A up to 30°C. * 21: For 10W model only: Max, output current for using IEEE is 400A up to 40°C and 450A up to 30°C. * 21: For 10W model only: Max,

TDK·Lambda _____

GENESYS[™] 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

OUTPUT RATING 1.Rated output voltage(*1)	G	1000-5	1500-3.4 1500
2.Rated output current (*2)	A	5	3.4
3.Rated output content (2)	Ŵ	5000	5000
	V	1000	1500
		3-Phase, 200V models: 170~265V	
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 480V models: 342~528Vac, 47~63	
2. Maximum Input current at 3-Phase, 200V models		17.5A @	
100% load 3-Phase, 480V models		9.2A @	
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*3)		0.94 @ 200/380Vac, 92	92
5.Inrush current (*6)	A	Less th	
CONSTANT VOLTAGE MODE	V	1000	1500
1.Max. Line regulation (*7)			output voltage
2.Max. Load regulation (*8)		0.01% of rated out	
3.Ripple and noise (p-p, 20MHz) (*9)	mV	900	900
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	200	200
5.Temperature coefficient	PPM/°C	50PPM/°C from rated output volta	ge, following 30 minutes warm-up.
6.Temperature stability		0.01% of rated Vout over 8hrs interval following	30 minutes warm-up. Constant line, load & temp.
7. Warm-up drift		Less than 0.05% of rated output voltage+	2mV over 30 minutes following power on.
8.Remote sense compensation/wire (*10)	v	5	5
9.Up-prog. Response time (*11)	mS	150	150
10.Down-prog.response time: Full load (*11)	mS	100	100
No load (*12)	mS	3000	3000
11.Transient response time	mS	Time for output voltage to recover within 0.5% of its rated output for 10~100%, Local si	or a load change 10~90% of rated output current. Output set-point:
12.Start up delay	Sec	Less that	
13. Hold up time	mS	5mS typical. Rate	
CONSTANT CURRENT MODE	V	1000 0.05% of rated	1500
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)		0.05% of rated	
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14)	mA	≤7	≤4
4.Temperature coefficient	PPM/°C	70PPM/°C from rated output curre	
5.Temperature stability		0.01% of rated lout over 8hrs. interval following 30 n	
6. Warm-up drift		Less than +/-0.15% of rated output curre	nt over 30 minutes following power on.
ANALOG PROGRAMMING AND MONITORING (ISOLATE			
1.Vout voltage programming	1	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0	15% of rated Vout
2.lout voltage programming (*15)	-	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0	
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linear	
4.lout resistor programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linear	-
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.	
6.Output current monitor (*15)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.	
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	JT)		
1. Power supply OK #1 signal	· ·	Power supply output monitor. Open collector. Output On: On. Output	t Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.
2. CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximu	n Voltage: 30V, Maximum Sink Current: 10mA.
3. LOCAL/REMOTE Analog control		Enable/Disable analog programming control by electrical signal or d	ry contact. Remote: 0~0.6V or short. Local: 2~30V or open.
4. LOCAL/REMOTE Analog signal		Analog programming control monitor signal. Open collector. Remote: (Dn. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.
5. ENABLE/DISABLE signal		Enable/Disable PS output by electrical signal or dry contact. 0~0.6V of	
6. INTERLOCK (ILC) control		"Enable/Disable PS output by electrical signal or dry contact. Output	· · · · · ·
7. Programmed signals		Two open drain programmable signals. Maximum voltage 25V, Maxim	,
8. TRIGGER IN / TRIGGER OUT signals		Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr, Tf=1us Maximum, Min del	nput voltage = 2.5V, Maximum high level input = 5V positive
9. DAISY_IN/SO control signal		By electrical Voltage: 0~0.6V/2~30V or dry contact.	,
		4~5V=OK, 0V (500ohm impedance)=Fail	
10. DAISY_OUT/PS_OK #2 signal			
FUNCTIONS AND FEATURES		Possible 11n to four (4) identical units in Master/Clavo mode. Defente :	nstruction manual. For more nower please consult with Eastern
FUNCTIONS AND FEATURES 1. Parallel operation		Possible. Up to four (4) identical units in Master/Slave mode. Refer to i Not Possible	nstruction manual. For more power please consult with Factory.
FUNCTIONS AND FEATURES		Not Possible	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation			turn-on and turn-off.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	 	Not Possible Power supplies can be connected in Daisy chain to synchronize their	turn-on and turn-off. the communication ports or the front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mQ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel.	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001–999.99 V/mSec. or A/mSec. Programming via the
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001–999.99 V/mSec. or A/mSec. Programming via the
FUNCTIONS AND FEATURES	 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mQ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel.	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001–999.99 V/mSec. or A/mSec. Programming via the
FUNCTIONS AND FEATURES	 V	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500
FUNCTIONS AND FEATURES	 V 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 putput voltage
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 (*15)	 V V	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current:	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001–999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 putput voltage +0.2% of rated output current
FUNCTIONS AND FEATURES I. 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	 V 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current: 0.002% of rated	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001–999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 putput voltage -0.2% of rated output current output voltage
FUNCTIONS AND FEATURES I. 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	 VV 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current 0.002% of rated 0.003% o	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001-999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 butput voltage 60.2% of rated output current output voltage output current
FUNCTIONS AND FEATURES I. 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 (*15) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy	 V V	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current: 0.002% of rated 0.1% of rated	turn-on and turn-off. the communication ports or the front panel. Ing via the communication ports or the front panel. ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 1500 putput voltage +0.2% of rated output current output voltage output voltage output voltage
FUNCTIONS AND FEATURES I. 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	V V V V 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current 0.002% of rated 0.003% o	turn-on and turn-off. the communication ports or the front panel. Ing via the communication ports or the front panel. ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the by command via the communication ports or by the front panel. 1500 1500 putput voltage +0.2% of rated output current output voltage output voltage output voltage
FUNCTIONS AND FEATURES	 V 	Not Possible Power supplies can be connected in Daisy chain to synchronize their Limits the output power to a proggrammed value. Programming via Emulates series resistance. Resistance range: 1~1000mΩ. Programm Programmable Output rise and Output fall slew rate. Programming r communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation 1000 0.05% of rated 0.1% of actual output current 0.002% of rated 0.1% of arted 0.1% of arted 0.2% of rated	turn-on and turn-off. the communication ports or the front panel. ing via the communication ports or the front panel. ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the aby command via the communication ports or by the front panel. 1500 1500 putput voltage +0.2% of rated output current output voltage output voltage putput voltage putput current

GENESYS[™] 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

PROTECTIVE FUNCTIONS	V	1000	1500
1.Foldback protection		Output shut-down when power supply changes mode from CV or Pow presetable. Reset by AC input recycle in AutoStart mode, by Power swi	ver Limit to CC mode or from CC or Power Limit to CV mode. User itch, by OUTPUT button, by rear panel or by communication.
2.Over-voltage protection (OVP)		Output shut-down. Reset by AC input recycle in autostart mode, by Pc	ower Switch, by OUTPUT button, by rear panel or by communication.
3.Over -voltage programming range	V	5~1212.75	5~1653.75
4. Over-voltage programming accuracy		+/-1% of rated output voltage	
5.Output under voltage limit (UVL)		Prevents from adjusting Vout below limit. Does not apply in analog pr	ogramming. Preset by front panel or communication port.
6.Over temperature protection		Shuts down the output. Auto recovery by autostart mode.	
7. Output under voltage protection (UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during u mode, by Power Switch, by OUTPUT button, by rear panel or by comm	Inder voltage condition. Reset by AC input recycle in autostart unication.
FRONT PANEL			
1.Control functions		Multiple options with 2 Encoders	
		Vout/Iout/Power Limit manual adjust	
		OVP/UVL/UVP manual adjust	
		Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC	
		Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB of	r Optional communication interface.
		Output ON/OFF. Front Panel Lock.	
		Communication Functions - Selection of Baud Rate, Address, IP and co	
		Analog Control Functions - Selection Voltage/resistive programming,	
2 Diambre		Analog Monitor Functions - Selection of Voltage/Current Monitoring 5 Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.	v/10v.
2.Display		lout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.	
3.Front Panel Buttons Indications		OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION,	
4. Front Panel Display Indications		Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Stc	, Address, LFP, Autostart, Safetstart, Foldback V/I, Kemote ore Cell.
ENVIRONMENTAL CONDITIONS			
1.Operating temperature		0~50°C, 100% load.	
2.Storage temperature		-30~85℃	
3.Operating humidity	%	20~90% RH (no condensation).	
4.Storage humidity	%	10~95% RH (no condensation).	
5.Altitude (*17)		Operating: 10000ft (3000m), output current derating 2%/100m or Ta de	erating 1°C/100m above 1500m. Non operating: 40000ft (12000m).
MECHANICAL		-	
1.Cooling		Forced air cooling by internal fans. Air flow direction: From front pane	to power supply rear
2.Weight	kg	Less than 8.5Kg.	· · · · · · · · · · · · · · · · · · ·
3.Dimensions (WxHxD)	mm	W: 423, H: 43.6, D: 486.5 (Without busbars and busbars cover), cover) Refer to Outline drawing.	W: 423, H: 43.6, D: 598.1 (Including busbars and busbars
4.Vibration		MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1	
5.Shock		Less than 20G, half sine, 11mSec. Unit is unpacked.	
SAFETY/EMC			
1. Safety standards: Safety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.	
· _ · _ · _ · _ · _ · _ · _ · _			vication options) are Non Hazardour-
1.1. Interface classification		Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (commun	
1.2 Withstand voltage		Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (comi J2, J3, J4, J5, J6, J7 and J9 (communicatoin options): 2000VDC Ground: 2835VDC 1min.	municatoin options): 4000VDC 1min, Output & J8 (sense) - J1, 1min, Output & J8 (sense) - Ground: 3280VDC 1min. Input -
1.3 Insulation resistance		>100Mohm at 25°C, 70%RH, Output to Ground 500VDC.	
2.EMC standards (*18)		IEC/EN61204-3 Industrial environment.	
2.1. Conducted emmision		IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15	i-A, VCCI-A.
		IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC	· · · · · · · · · · · · · · · · · · ·

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

* 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: Typ. at Ta=25°C, rated output power.
 * 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 models.

* 4: For Cases Where conformance to Various safety standards (UL, IEL, etc...) is required, to be described as 190-240.
 * 5: 3-Phase 200V models: At 200Va cinput voltage, Phase480V: At 380Vac input voltage. With rated output power.
 * 0: Not including EMI filter inrush current, less than 0.2mSec.
 * 7: 3-Phase 200V models: 170-265Vac, 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: Measured with 100:1 probe.

9: 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: 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: Max. ambient temperature for using IEEE is 40°C.
18 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

TDK·Lambda _____

GENESYS[™] 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
1.Rated output voltage(*1)	V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)	A	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
INPUT CHARACTERISTICS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)				170~265Va)/230Vac).)/400/415/4	10/160/190	(ac)				
2.Maximum Input current at 3-Phase, 200V models:		25.5A @ 20	0Vac.	342~320Va	C, 47~03HZ	(COVEIS 30)	J/400/41J/4	40/400/480	vac).				
100% load 3-Phase, 480V models:		13.5A @ 38											
3.Power Factor (Typ.)				ed output p									
4.Efficiency (Typ.) (*5) (*3)	%	91	91	91	91	91	91	91	91	91	92	92	92
5.Inrush current (*6)	A	Less than 6	5A.										
CONSTANT VOLTAGE MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output										
2.Max. Load regulation (*8)				voltage +5n									
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	80	80	80	90	90	150	250	150	450	1100	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	10	8	12	15	15	20	45	60	100	250	500
5.Temperature coefficient							tes warm-up						
6.Temperature stability							ites warm-u			temperatu	ire.		
7.Warm-up drift							inutes follo			-	-	-	
8.Remote sense compensation/wire (*10)	V	2	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. response time (*11)	mS mS	30 50	30 80	30 80	50 80	50 100	50 100	50 100	50 100	50 100	100 100	150 100	200
10.Down-prog. response time Full load (*11) No load (*12)	ms	600	500	1000	1000	1000	1500	2500	2000	3000	3000	3000	100 3000
11.Transient response time		Output set	point: 10~1	00%, Local	sense.		d output fo			% of rated o	output curre	ent.	
12 Start up dolay				eis up to an	u including	100V. 2mS	for models	adove 100V					
12.Start up delay 13.Hold-up time		Less than 5	Sec. II. Rated out	nut nower									
		1											
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output										
2.Max. Load regulation (*13)		-	ted output										_
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	≤500	≤300	≤150	≤100	≤70	≤45	≤20	≤15	≤14	≤10	≤5
4.Temperature coefficient	PPM/°C						it, following nt, followin						
5.Temperature stability		0.01% of ra	ted lout ove	er 8hrs. inter	val followir	ng 30 minu	tes warm-u	o. Constant	line, load &	temperatu	re.		
6.Warm-up drift							rrent over 3 current ove						
L													
ANALOG PROGRAMMING AND MONITORING (ISOLATED								150/ - 6	al 1/a 6				
1.Vout voltage programming						,	nearity: +/-0						
2.lout voltage programming (*15) 3.Vout resistor programming							nearity: +/-0 nd linearity						
4.lout resistor programming (*15)							nd linearity						
5.Output voltage monitor				lectable. Ac				, 0.570 0.	- accurout				
6.Output current monitor (*15)				lectable. Ac	,								
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	г)												
1.Power supply OK #1 signal		Power cup	alv output r	nonitor On			n: On. Outp	ut Off: Off A	Aavimum V	oltago: 20V	Maximum	Sink Curron	t: 10mA
2.CV/CC signal							Off. Maximu						L. TUTIA.
3.LOCAL/REMOTE Analog control							al signal or o						
4.LOCAL/REMOTE Analog signal							tor. Remote						
5.ENABLE/DISABLE signal							act. 0~0.6V						
6.INTERLOCK (ILC) control						,	act. Output						
7.Programmed signals						,	e 25V. Maxi						
8.TRIGGER IN / TRIGGER OUT signals		Maximum Maximum	ow level inp high level in	out voltage put = 5V po	= 0.8V. Min	mum high	level input = 10us min	voltage = 2.	5V.				
9.DAISY_IN/SO control signal			al Voltage: 0	~0.6V/2~30		ntact.							
					- End								
10.DAISY_OUT/PS_OK #2 signal		4~3V = 0K	07 (3002211	npedance)	= Fail.								
		4~3V = 0K	.00 (3002211	npedance) :	= Fail.								
10.DAISY_OUT/PS_OK #2 signal		Possible. U	p to 4 ident	ical units in	Master/Slav		efer to instru	iction manu	ıal.				
10.DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		Possible. U Possible. Tv	p to 4 ident vo identical	ical units in units. Refe	Master/Slav to instruct	ion manual							
10.DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		Possible. U Possible. Tv Power supp	p to 4 ident vo identical plies can be	ical units in units. Refer connected	Master/Slav to instruct in Daisy cha	ion manual ain to synch	Ironize thei	r turn-on an	d turn-off.	rts or the fr	ont nanel		
10.DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. U Possible. Tv Power supp Limits the o	p to 4 ident vo identical plies can be putput pow	ical units in units. Refer connected er to a prog	Master/Slav to instruct in Daisy cha rammed va	ion manual ain to synch lue. Progra	nronize thei mming via t	r turn-on an he commur	d turn-off. nication por				
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		Possible. U Possible. Ty Power sup Limits the o Emulates so Programm	p to 4 ident vo identical blies can be butput pow eries resista able Output	ical units in units. Refer connected er to a prog	Master/Slav to instruct in Daisy cha rammed va nce range: utput fall sle	ion manual ain to synch lue. Progra 1~1000mΩ ew rate.	Ironize thei	r turn-on an he commur	d turn-off. nication por				
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		Possible. U Possible. Tv Power supp Limits the e Emulates s Programm Programm Programm Profiles of	p to 4 ident vo identical blies can be butput pow eries resista able Output ing range: 0 ing via com up to 100 st	ical units in units. Refer connected er to a prog nce. Resista trise and Ou .0001~999. munication eps can be s	Master/Slav to instruct in Daisy cha rammed va nce range: utput fall sle 99 V/mS. or ports or fro tored in 4 r	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. nt panel. nemory cel	nronize thei mming via t . Programm Is.	r turn-on an he commur	d turn-off. nication por				
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	 	Possible. U Possible. Tr Power supp Limits the o Emulates so Programm Programm Profiles of Activation	p to 4 ident vo identical blies can be butput pow eries resista able Output ing range: 0 ing via com up to 100 str by comman	ical units in units. Refer connected er to a prog nce. Resista t rise and Ou .0001~999. munication eps can be s d via comm	Master/Slav to instruct in Daisy cha rammed va nce range: utput fall sle 29 V/mS. or ports or fro tored in 4 r unication p	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. nt panel. nemory cel ports or fror	monize thei mming via t . Programm ls. Is. t panel.	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.		
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, RS232/483, Optional (*17) (*20) Interfaces)		Possible. U Possible. Th Power supj Limits the o Emulates s Programm Programm Programm Profiles of Activation	p to 4 ident vo identical olies can be output pow eries resista able Output ing range: 0 ing via com up to 100 str by comman	ical units in units. Refer connected er to a prog nce. Resista trise and Ou .0001~999.9 munication eps can be s d via comm	Master/Slav to instruct in Daisy cha rammed va nce range: utput fall sle 99 V/mS. or ports or fro tored in 4 r	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. nt panel. nemory cel	nronize thei mming via t . Programm Is.	r turn-on an he commur	d turn-off. nication por			1000	1500
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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Possible. U Possible. Tr Power supj Limits the <i>c</i> Emulates s Programm Programm Profiles of i Activation 20 0.05% of ra	p to 4 ident vo identical olies can be output pow eries resista able Output ing range: 0 ing via com up to 100 st by comman 30 ted output	ical units in units. Refer connected er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s d via comm 40 voltage.	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall sl 99 V/mS. or ports or frc tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm ls. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	1000	1500
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, R5232/485, Optional (*17) (*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15)	 V	Possible. U Possible. Tr Power supj Limits the c Emulates s Programm Programm Programm Profiles of i Activation 20 0.05% of ra	p to 4 ident vo identical blies can be butput pow eries resista able Output ing range: 0 ing via com up to 100 st by comman 30 ted output ual output c	ical units in units. Refei connected er to a prog nce. Resista trise and Ou .0001~999. munication eps can be s d via comm 40 voltage. :urrent +0.2	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall sl 99 V/mS. or ports or frc tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm Is. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	1000	1500
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 (*17) (*20) Interfaces) 1.Vout programming accuracy (*16)	 V 	Possible. U Possible. Tv Power supp Limits the c Emulates so Programm Programm Profiles of i Activation 20 0.05% of ra 0.1% of act 0.002% of r	p to 4 ident vo identical olies can be output pow eries resista able Output ing range: 0 ing via com up to 100 st by comman 30 ted output	ical units in units. Refer connected er to a prog nce. Resista trise and O. .0001~999. munication eps can be s d via comm 40 voltage. turrent +0.2 t voltage.	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall slav 99 V/mS. or ports or fro tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm Is. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	1000	1500
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 (#17) (#20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution	 V V	Possible. U Possible. Tr Power supp Limits the of Emulates s Programm Programm Programm Activation 20 0.05% of ra 0.002% of r 0.002% of r	p to 4 ident vo identical blies can be boutput pow eries resista able Output ing range: 0 ing via com ap to 100 st by comman 30 ted output al output c ated output	ical units in units. Refer connected er to a prog nce. Resista trise and 00.0001-999: munication eps can be s down values unication eps can be s down values work values unication eps can be s down values eps can be s down values eps can be s down values to	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall slav 99 V/mS. or ports or fro tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm Is. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	1000	1500
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 (*17) (*20) Interfaces) 1.Yout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Yout programming resolution 4. Jout programming resolution	 V 	Possible. U Possible. Tu Power supp Limits the e Emulates s Programm Programm Profiles of I Activation 20 0.05% of ra 0.002% of r 0.002% of r 0.005% of ra	p to 4 ident vo identical blies can be putput pow pries resista able Output ing via com up to 100 st by comman 30 ted output al output ca ated outpu ated outpu	ical units in units. Refer connected er to a prog nce. Resista rise and Ot .0001~999. munication eps can be s d via comm 40 voltage. uurrent +0.2 t voltage. t voltage. t current. voltage.	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall slav 99 V/mS. or ports or fro tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm Is. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	1000	1500
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 (*17) (*20) Interfaces) 1.Vout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Vout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	 V 	Possible. U Possible. Tu Power supp Limits the e Emulates s Programm Programm Profiles of I Activation 20 0.05% of ra 0.002% of r 0.002% of r 0.005% of ra	p to 4 identi vo identical liles can be utput pow eries resista able Outpuu ing range: 0 ing via com ing via com ing via com ing to 100 st by comman 30 ted output ated output tated output ted output	ical units in units. Refer connected er to a prog nce. Resista rise and Ot .0001~999. munication eps can be s d via comm 40 voltage. uurrent +0.2 t voltage. t voltage. t current. voltage.	Master/Slav to instruct in Daisy cha rammed va ncce range: utput fall slav 99 V/mS. or ports or fro tored in 4 r unication p 60	ion manual ain to synch lue. Progra 1~1000mΩ ew rate. A/mS. int panel. nemory cel ports or fror 80	nronize thei mming via t . Programm Is. nt panel. 100	r turn-on an he commur ing via com	d turn-off. nication por munication	ports or fro	ont panel.	0.011%	1500

G*E***NESYS[™] 7.5kW SERIES SPECIFICATIONS**

PROTECTIVE FUNCTIONS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Foldback protection		Output shu Reset by AC	t-down whei input recycl	n power sup e in autostai	ply changes rt mode, by P	mode from Power Switch	CV or Power L 1, by OUTPUT	imit to CC m button, by r	ode or from ear panel or	CC or Power by communi	Limit to CV ı cation.	node. User p	resetable.
2.Over-voltage protection (OVP)					ut recycle in								
3.Over-voltage programming range	V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5	5~1212.75	5~1653.75
Over-voltage programming accurac	у		ed output vo										
5.Output under voltage limit (UVL)					limit. Does ı		analog progi	ramming. Pre	eset by front	panel or cor	nmunicatio	n port.	
6.Over temperature protection					ery by autost								
7.Output under voltage protection (U	VP)	Prevents ad Reset by AC	justment of input recyc	Vout below e in autosta	limit. P.S out rt mode, by l	put turns Of Power Switc	f during und h, by OUTPU	er voltage co T button, by	ndition. rear panel o	r by commu	nication.		
FRONT PANEL													
1.Control functions		Multiple op	tions with 2	Encoders									
		Vout/lout/P	ower Limit r	nanual adju	st								
		OVP/UVL/U	VP manual a	djust									
		Protection I	unctions - C	VP, UVL, UVF	P, Foldback, (OCL, ENA, IL	2						
		Communica	ation Functio	ons - Selectio	on of LAN, IEE	E,RS232,RS4	185,USB or O	ptional comr	nunication i	nterface.			
		Output ON/	OFF. Front P	anel Lock.									
		Communica	ation Functio	ons - Selectio	on of Baud Ra	ate, Address	, IP and comr	nunication la	inguage.				
		Analog Con	trol Functio	ns - Selectio	n Voltage/re	sistive prog	amming, 5V/	10V, 5K/10K	programmii	ng			
		Analog Mor	nitor Functio	ns - Selectio	on of Voltage	/Current Mc	nitoring 5V/	10V.					
2.Display		Vout: 4 digi	ts, accuracy:	0.05% of rat	ed output vo	oltage +/-1 c	ount.						
		lout: 4 digit	s, accuracy:	0.2% of rated	d output curi	rent +/-1 cou	int.						
3.Front Panel Buttons Indications		OUTPUT ON	I, ALARM, PF	EVIEW, FINE	, COMMUNIO	CATION, PRO	TECTION,CO	NFIGURATIC	N, SYSTEM,	SEQUENCER			
4. Front Panel Display Indications		Voltage, Cu RS/USB/LAN	rrent, Power N/IEEE comm	CV, CC, CP, I unication, T	External Volt rigger, Load	age, Externa /Store Cell.	al Current, Ac	ldress, LFP, A	utostart, Sa	fetstart, Fold	back V/I, Rei	note (comm	unication),
ENVIRONMENTAL CONDITIONS													
1.Operating temperature		0~50°C, 100)% load.										
2.Storage temperature		-30~85°C											
3.Operating humidity	%		(no conden	cation)									
	%	-	(no conden										
4.Storage humidity 5.Altitude (*17)	90	-			current dera	+: 20/ /100				Our Name		06+ (12000	\
		operating:	1000011 (500	uni), output	current dera	11119 2%/100			n above zou	iom. Non ope	ating: 4000	1011 (1200011).
MECHANICAL			-										_
1.Cooling		Forced air c	ooling by int	ernal fans. A	Airflow direc	tion: From fr	ont panel to	power suppl	y rear.				
2.Weight	kg	Less than 8.	5Kg.										
3.Dimensions (WxHxD)	mm	W: 423, H: 4 W: 423, H: 4	3.6, D: 486.5 3.6, D: 598.1	(Without bu (Including b	isbars and bi usbars and b	usbars cover ousbars cove), r). Refer to O	utline drawii	ng.				
4.Vibration		MIL-810G, n	nethod 514.6	, Procedure	l, test condit	tion Annex (- 2.1.3.1						
5.Shock		Less than 20)G, half sine,	11mS. Unit i	s unpacked.								
SAFETY/EMC													
1.Applicable standards: Saf	ety	UL61010-1.	CSA22.2 No.	51010-1. IEC	61010-1, EN6	1010-1.							
	·				J4, J5, J6, J7,		19 (commun	ication optio	ns) are Non	Hazardous			
1.1. Interface classification			· ·		8 (sense) are								
		Vout≤50V N		- Output &	J8 (sense), J1							izaruous.	
		60V≤Vout≤ Output & J8	100V Models	: Input – Ou J2, J3, J4, J5,	tput & J8 (se . J6, J7 & J9 (c	nse), J1, J2, J communicat	3, J4, J5, J6, J7 on options):	7 & J9 (comm 850VDC 1mi	unication o n, Output &	ptions): 4242 J8 (sense) - G	VDC 1min, round: 1500	VDC 1min,	
1.2 Withstand voltage		Output & J8		J2, J3, J4, J5,	utput & J8 (s . J6, J7 & J9 (c								
		Output & J8 Input - Grou	(sense) - J1, und: 2835VD	J2, J3, J4, J5, C 1min.	Output & J8 J6, J7 & J9 (c	ommunicat							
1.3.Isolation resistance		100Mohm a	t 25°C, 70%	RH. Output t	o Ground 5	00VDC							
2.EMC standards (*18)				-	ent, Annex H		CC Part 15-A.	VCCI-A.					
						/ .							
2.1.Conducted emission		IEC/EN6120	4-3 Industria	l environme	ent, Annex H	table H.3 a	nd H4, FCC Pa	art 15-A, VCC	-A				

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

NOTES:

**: Coming soon

**: Coming soon
**: Coming soon
**: Kinimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V
*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
*3 Typ, at Ta=25°C, rated output power.
*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 200V models.
*5: 3-Phase 200V models. At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
*6: Not including EMI filter inrush current, less than 0.2mS.
*7: 3-Phase 200V models: 707-265Vac, 3-Phase 400 wodels: 342-528Vac. Constant load.
*8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
*9: For 20V-150V models: Measured with JETA RC-9131C (11) probe. For 200-1500V 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% of Rated Output Voltage at rated resistive load.
*12: From 90% to 10% of Rated Output Voltage rating, constant input voltage.
*13: For load voltage change, equal to the unit voltage rating, constant input voltage.
*14: The ripple is measured at 10-100% of rated output voltage and rated output current. B.W SHz~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 Max. ambient temperature for IEEE is 40°C.
*18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

TDK·Lambda _____

GENESYS[™] GSP10kW SERIES SPECIFICATIONS

		650	10 1000	20 500	20.340	40.350	50 200	60 170	00 100	100 100	150.00	200 50	200.24	400.20	500.20	600.17
OUTPUT RATING 1.Rated output voltage(*1)		GSP V	10-1000 10	20-500 20	30-340 30	40-250 40	50-200 50	60-170 60	80-130 80	100-100 100	150-68 150	200-50 200	300-34 300	400-26 400	500-20 500	600-17 600
2.Rated output voltage(*1)		A	1000 (*3)	500	30	250	200	170	130	100	68	50	300	26	20	17
3.Rated output power		kW	1000 (3)	10	10.2	10	10	10.2	10.4	100	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		v	10	20	30	40	50	60	80	100	150	200	300	400	500	600
		V			els: 170~2					100	150	200	500	400	500	000
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 2. Dhase 4000 models: 3. Phase, 2000 models: 3. Phase 4000 models: 3. Phas					els: 342~4					ac)						
										40/460/48	0Vac)					
			35A @ 20	OVac												
100% load			18.4A @ 3													
3-Phase, 480V models:			18.4A @ 3													
3.Power Factor (Typ)				0.94 @ 200/380Vac, rated output power.												
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		%	89 (*21) Less than		91	91	91	91	91	91	91	91	92	92	91	92
6.AC line phase imbalance		A %	< 5%	TUUA												
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*8)					out voltag 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 r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient					ed output						20			00		
6.Temperature stability										p. Constan	t line, load	d & temp.				
7. Warm-up drift										wing powe						
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS								r a load ch g 100V. 2m				current. (output set	-point:
12.Start up delay		Sec	Less than							<u></u>	.,					
CONSTANT CURRENT MODE																
			0.05% of	atad aut												
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)					out curren out curren											
3.Ripple r.m.s. @ 10% rated voltage	ae BW 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		mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
			10V~100\		1			1	/ing 30 mi	nutes warr	1					
5.Temperature coefficient		PPM/°C	150V~60	OV 70PPI	√/ºC from	rated out	put currer	nt, followi	ng 30 min	utes warm	-up.					
6.Temperature stability										p. Constan						
7. Warm-up drift) minutes f						
			150V~60	OV: Less th	an +/-0.15	5% of rated	d output c	urrent ov	er 30 minu	ites follow	ing powe	ron.				
ANALOG PROGRAMMING AND	MONITORING (ISOLATED	FROMT	HE OUTPL	JT)												
1.Vout voltage programming								,	,	0.15% of ra						
2.lout voltage programming (*1	5)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.													
3.Vout resistor programming	5)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.													
4.lout resistor programming (*15 5.Output voltage monitor	5)				nm full sci r selectab					rity: +/-0.5	% of rated	lout.				-
6.Output current monitor (*15)					r selectab											
			- 57010	, use	. sereetab		0.5									
SIGNALS AND CONTROLS (ISOL	ATED FROM THE OUTPU	<u>, </u>	Deuter	anh:												
1. Power supply OK #1 signal			rower su			* On	lloctor O	utaut O	0.0.0+	+ Off. Off.	Mawine	Volt	201/ 14	mum Cir-l	Current A	0
3. LOCAL/REMOTE Analog contro	2. CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.												Current: 1	0mA.
I	ol			onitor. Op	en collect	or. CC mod	de: On. CV	mode: Of	ff. Maximu		: 30V, Max	imum Sin	k Current:	10mA.		0mA.
4. LOCAL/REMOTE Analog signal			Enable/D	onitor. Op isable ana	en collect log progr	or. CC moo amming c	de: On. CV ontrol by	mode: Of electrical	ff. Maximu signal or o		: 30V, Max t. Remote:	timum Sin : 0~0.6V oi	k Current: r short. Lo	10mA. cal: 2~30V	or open.	
			Enable/D analog pr	onitor. Op isable ana ogrammir	en collect llog progr ng control	or. CC moo amming c monitor si	de: On. CV control by ignal. Ope	mode: Of electrical n collecto	ff. Maximu signal or o r. Remote	ım Voltage dry contac	: 30V, Max t. Remote: Off. Maxii	timum Sin 0~0.6V or num Volta	k Current: r short. Lo ige: 30V, M	10mA. cal: 2~30V laximum S	or open.	
4. LOCAL/REMOTE Analog signal			Enable/D analog pr Enable/D Enable/D	onitor. Op isable ana ogrammir isable PS o isable PS o	en collect log progr ng control output by output by	or. CC mod amming c monitor si electrical electrical	de: On. CV ontrol by ignal. Ope signal or o signal or o	mode: Of electrical n collecto dry contac dry contac	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o	:: 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lo	timum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V	k Current: r short. Lo ige: 30V, M selectable / or open.	10mA. cal: 2~30V laximum S logic.	or open.	
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal			Enable/D analog pr Enable/D Enable/D Two oper	onitor. Op isable ana ogrammir isable PS isable PS drain pro	en collect log progr ng control output by output by ogrammak	or. CC mod amming c monitor s electrical electrical ble signals	de: On. CV ontrol by ignal. Ope signal or o signal or o . Maximu	mode: Of electrical n collecto dry contac dry contac m voltage	f. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink	:: 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lo current 10	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu	isable ana ogrammir isable PS isable PS drain pro m low lev	en collect alog progr ng control putput by putput by pgrammak vel input	or. CC moo amming c monitor si electrical electrical ole signals voltage =	de: On. CV control by ignal. Ope signal or o signal or o . Maximu = 0.8V, Mi	mode: Of electrical n collecto dry contac dry contac m voltage nimum h	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol	:: 30V, Max t. Remote: Off. Maxin ~30V or o r short. Lo current 10 tage = 2.	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
4. LOCAL/REMOTE Analog signal S. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig	onitor. Op isable ana ogrammir isable PS (isable PS (isable PS (drain pro m low lev gger: tw=	en collecto alog progr ng control putput by putput by ogrammak vel input =10us mir	or. CC mod amming c monitor si electrical electrical ole signals voltage = himum. Ti	de: On. CV control by ignal. Ope signal or o signal or o . Maximun = 0.8V,Mii r,Tf=1us N	mode: Of electrical n collecto dry contac dry contac m voltage nimum h Maximum	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink	:: 30V, Max t. Remote: Off. Maxin ~30V or o r short. Lo current 10 tage = 2.	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
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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		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri	onitor. Op isable ana ogrammir isable PS of isable PS of drain pro m low lev gger: tw= cal Voltag	en collecto alog progr ng control putput by putput by ogrammak vel input =10us mir	or. CC mod amming c monitor si electrical electrical ole signals voltage = nimum. Ti /2~30V or	de: On. CV control by ignal. Ope signal or o signal or o . Maximun = 0.8V, Mir r, Tf=1us M dry conta	mode: Of electrical n collecto dry contac dry contac m voltage nimum h Maximum	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol	:: 30V, Max t. Remote: Off. Maxin ~30V or o r short. Lo current 10 tage = 2.	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=Ok	nitor. Op isable ana ogrammir isable PS isable PS isable PS drain pro m low lev gger: tw= cal Voltag c, 0V (500c	en collect alog progr ng control output by output by output by ogrammak /el input =10us mir e: 0~0.6V, ohm impe	or. CC moc amming c monitor si electrical electrical ole signals voltage = nimum. Ti (2~30V or dance)=Fa	de: On. CV control by ignal. Ope signal or of signal or of . Maximun = 0.8V,Mi r,Tf=1us M dry conta ail	mode: Of electrical in collecto dry contac dry contac n voltage nimum h Maximun ct.	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de	Im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol lay betwe	: 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lo current 10 tage = 2. een 2 puls	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
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		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OK	nitor. Op isable ana ogrammir isable PS of a drain pro- m low lev gger: tw= cal Voltag c, OV (500c	en collect: log progr ng control poutput by poutput by pogrammab rel input rel input rel input rel o~0.6V, bhm impe	or. CC moc amming c monitor si electrical electrical ole signals voltage = nimum. Ti (2~30V or dance)=Fa	de: On. CV control by ignal. Ope signal or of signal or of . Maximun = 0.8V,Mi r,Tf=1us M dry conta ail	mode: Of electrical in collecto dry contac dry contac n voltage nimum h Maximun ct.	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de	im Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol	: 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lo current 10 tage = 2. een 2 puls	cimum Sin 0~0.6V or mum Volta pen. User ocal: 2~30V 00mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
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		 	Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OK Possible. Consult w	nitor. Op isable ana ogrammir isable PS of isable PS of a drain pro- m low lev gger: tw- cal Voltag c, OV (500c	en collect: log progr ng control poutput by poutput by ogrammab ycel input =10us mir =10us mir =0~0.6V, hhm impe- r (4) identi ry	or. CC moo amming c monitor si electrical electrical ole signals voltage = nimum. Ti /2~30V or dance)=Fa cal GSP ur	de: On. CV ontrol by ignal. Ope signal or o signal or o . Maximu e 0.8V,Mi r,Tf=1us h dry conta ail	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum ct.	ff. Maximu signal or o r. Remote t.t. 0~0.6V t.t. Remote 25V, Maxi igh level n, Min de r please co	m Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol lay betwe onsult with	: 30V, Maxi t. Remote: Off. Maxin ~30V or o r short. Lo current 10 tage = 2. en 2 puls Factory.	kimum Šini i 0~0.6V oj num Volta pen. User s ical: 2~30V 00mA (Shu 5V, Maxir ses 1ms.	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V aximum S logic. 7V zener)	' or open. ink Currer	t: 10mA.
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			Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OK Possible. Consult w Power su	nitor. Op- isable ana ogrammin isable PS (isable PS (isable PS (a drain pro- m low lev gger: tw= cal Voltag c, 0V (5000 (, 0V (5000)) Up to four vith Factor pplies can	en collect: alog progr ng control poutput by poutput by poutput by pogrammab /el input =10us mir =10us mir =0~0.6V, ohm impe r (4) identi ry be conne	or. CC moo amming c monitor si electrical electrical ole signals voltage = nimum. Ti (2~30V or dance)=Fa cal GSP ur	de: On. CV control by ignal. Ope signal or of signal or of . Maximun = 0.8V,Mi r,Tf=1us M dry conta ail	mode: Of electrical on collector dry contact dry contact ny contac	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de r please co onize thei	m Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol lay betwee onsult with	: 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lc current 10 tage = 2. en 2 puls Factory. nd turn-o	kimum Šini i 0~0.6V oi num Volta pen. User s ical: 2~30V 00mA (Shu 5V, Maxir ses 1ms.	k Current: Lo r short. Lo ige: 30V, M selectable / or open. inted by 2 num high	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp	' or open. ink Currer	t: 10mA.
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control			Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OK Possible. Consult w Power su Limits the	nitor. Op- isable ana ogrammin isable PS (isable PS (isable PS (a drain pro- m low lev gger: tw= cal Voltag c, 0V (5000 c, 0V (5000) c, 0V (5000 c, 0V (5000) c, 0V (50	en collect: alog progr ng control poutput by poutput by poutput by pogrammab /el input =10us mir =10us mir =10us mir =0~0.6V, ohm impe r (4) identi ry be conne power to a	or. CC moc amming c monitor si electrical electrical electrical ole signals voltage = nimum. Ti /2~30V or dance)=Fa cal GSP ur ected in Da proggram	de: On. CV control by ignal. Ope signal or of signal or of . Maximun = 0.8V,Min r,Tf=1us M dry conta ail nits. For m aisy chain mmed valu	mode: Ol electrical in collecto dry contac dry contac m voltage nimum h Maximum ct. ore powe to synchri e. Prografi	ff. Maximu signal or o r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de r please co onize thei mming via	m Voltage dry contac : On. Local: or short, 2 e: 0~0.6V o imum sink input vol lay betwe onsult with	: 30V, Maxi t. Remote: Off. Maxii ~30V or o r short. Lc current 10 tage = 2. en 2 puls Factory. In Factory. Ind turn-o punicatior	kimum Sinli co-0.6V or num Volta pen. User s ccal: 2~30V 00mA (Shu 5V, Maxin ses 1ms.	k Current: r short. Lo gge: 30V, M selectable / or open. nuted by 2 num high	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp h level inp anel.	'or open. ink Currer put = 5V p	t: 10mA.
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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			Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OK Possible. Consult w Power su Limits the Emulates Programm commun	nitor. Opi isable ana ogrammi isable PS of a drain pro- m low lee gger: tw= cal Voltag c, 0V (500c Up to four vith Factor pplies can e output p series res mable Out cation po	en collect: log progr ng control output by output by ogrammab rel input -10us mir -2000 mir -200	or. CC moc amming c monitor si electrical electrical ole signals voltage = nimum. Tr (2~30V or dance)=Fa cal GSP ur ccal GSP ur ected in Da proggram esistance in nd Output front pane	de: On. CV control by ignal. Ope signal or of . Maximur e. 0.8V, Mi r,Tf=1us M dry conta ail mits. For m aisy chain med valu range: 1~ t fall slew el.	imode: Ol electrical n collecto dry contac dry contac dry contac n voltage n voltage voltage voltage voltage voltage voltage voltage voltage volt	ff. Maximu signal or o rr. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level gh level	m Voltage dry contac: C n. Local: or short, 2 e: 0~0.6V o mum sink input vol lay betwe onsult with r turn-on a the comm ning via the range: 0.00	: 30V, Max t. Remote: Off. Maxin ~30V or o r short. Lc current 10 tage = 2. en 2 puls Factory. nd turn-o nunicatior e commur 201~999.9	kimum Šini 0~0.6V or mum Volta pen. User s ical: 2~30V 00mA (Shu 5V, Maxin ises 1ms. ff. n ports or t nication pc 9 V/mSec.	k Current: r short. Lo rge: 30V, M selectable / or open. inted by 2 num high the front p orts or the or A/mSec	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp h level inp h level inp hanel. front pan c. Program	'or open. ink Currer put = 5V p el.	t: 10mA.
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GENESYS[™] GSP15kW SERIES SPECIFICATIONS

OUTPUT RATING	GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1)	V	10-1300	20-750	30	40-373	50-500	60	80	100-150	150-102	200-75	300	400	500	600
2.Rated output current (*2)		1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power		15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac) 3-Phase, 400V models: 342~460Vac, 47~63Hz (Covers 380/400/415Vac) 3-Phase, 480V models: 342~528Vac, 47~63Hz (Covers 380/400/415/440/460/480Vac)													
3-Phase, 200V models:				els: 342~52	28Vac, 47~	-63Hz (Co	vers 380/4	00/415/44	10/460/48	0Vac)					
2. Maximum Input current at 100% Ioad 3-Phase, 400V models: 3-Phase, 400V models: 3-Phase, 480V models:		52.5A @ 20 27.6A @ 38 27.6A @ 38	0Vac												
3.Power Factor (Typ)		0.94 @ 200	/380Vac,		out power										
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6) 6.AC line phase imbalance	A %	Less than < 5%	150A												
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*8)		0.01% of ra 0.01% of ra													
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		50PPM/°C								20		00			100
6.Temperature stability		0.01% of ra								t line, load	d & temp.				
7. Warm-up drift		Less than				-		•							
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (* 12)	mS	300 Time for o	600	800	900	950	1000	1200 output for	1900	2000	2500	3000 ed.output	4000	4000	3000
11.Transient response time	mS	10~100%,	Local sen	se. Less th	an 1mS, fo	or models	up to and	including	j 100V. 2m	S, for mod	lels above	100V.	corrent.	output se	-point:
12Start up delay	Sec	Less than 7													
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				50	00	00	100	150	200	500	1 400	500	000
2.Max. Load regulation (*13)		0.08% of r													
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (*14)	mA	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		M/°C from											
		150V~600						-							
6.Temperature stability		0.01% of ra										rature.			
7. Warm-up drift		10V~100V 150V~600													
				111 +/-0.15	% OF Falled	σαιραι ει	inentove	1 50 mmu	les Ioliow	ing power	011.				
ANALOG PROGRAMMING AND MONITORING (ISOLATED															
1.Vout voltage programming		0~100%,0													
2.lout voltage programming (*15)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.													
				m full cca				nd lineari	ity: 1/050		Vout			-	
3.Vout resistor programming		0~100%, 0	~5/10Koł		le, user se	lectable. /	Accuracy a			% of rated					
			~5/10Koł ~5/10Koł	ım full sca	le, user se le, user se	lectable. / lectable. /	Accuracy a Accuracy a	and linear		% of rated					
3.Vout resistor programming 4.lout resistor programming (*15)		0~100%, 0 0~100%, 0	∼5/10Koł ∼5/10Koł ~10V, user	ım full sca selectable	le, user se le, user se e. Accurac	lectable. / lectable. / y: +/-0.5%	Accuracy a Accuracy a of rated	and linear Vout.		% of rated					
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)		0~100%, 0 0~100%, 0 0~5V or 0-	∼5/10Koł ∼5/10Koł ~10V, user	ım full sca selectable	le, user se le, user se e. Accurac	lectable. / lectable. / y: +/-0.5%	Accuracy a Accuracy a of rated	and linear Vout.		% of rated					
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU'		0~100%, 0 0~100%, 0 0~5V or 0-	~5/10Koł ~5/10Koł ~10V, user ~10V, user	im full sca selectable selectable	le, user se le, user se e. Accurac e. Accurac	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5%	Accuracy a Accuracy a o of rated o. of rated	and lineari Vout. Iout.	ity: +/-0.5°	% of rated % of rated	lout.	30V. Maxi	mum Sink	Current [,]	10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)	 Г)	0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	~5/10Koł ~5/10Koł ~10V, user ~10V, user	im full sca selectabli selectabli it monitor	le, user se le, user se e. Accurac e. Accurac . Open co	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5%	Accuracy a Accuracy a of rated ' of rated of rated	and lineari Vout. Iout. On. Outpu	ity: +/-0.5 ^c	% of rated % of rated Maximum	lout. N Voltage:			Current:	10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU' 1. Power supply OK #1 signal	 Г) 	0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power sup CV/CC Mo Enable/Dis	~5/10Koł ~5/10Koł ~10V, user ~10V, user ply outpu nitor. Ope sable ana	im full sca selectable selectable it monitor n collecto og progra	le, user se le, user se e. Accurac e. Accurac e. Accurac r. CC mod mming co	lectable. / lectable. / cy: +/-0.5% cy: +/-0.5% llector. Ou e: On. CV pontrol by e	Accuracy a Accuracy a of rated b. of rated to of rated tput On: (mode: Off electrical s	and lineari Vout. lout. Dn. Outpu f. Maximu ignal or d	ity: +/-0.5 it Off: Off. m Voltage ry contact	% of rated % of rated Maximun : 30V, Max t. Remote:	lout. n Voltage: timum Sin : 0~0.6V or	k Current: r short. Lo	: 10mA. ocal: 2~30\	/ or open.	
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 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	 r) 	0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ CV/CC Mo Enable/Dis analog pro	~5/10Koł ~5/10Koł ~10V, user ~10V, user ply outpu nitor. Ope sable ana ogrammin	im full sca selectable selectable it monitor n collecto og progra g control r	le, user se le, user se e. Accurac e. Accurac . Open co r. CC mod mming co nonitor si	lectable. / lectable. / cy: +/-0.5% cy: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper	Accuracy a Accuracy a of rated b. of rated to of rated to of rated to of rated to of rated to of rated to of rated	and linear Vout. Iout. On. Outpu f. Maximu ignal or d . Remote:	it Off: Off. m Voltage ry contacl On. Local:	% of rated % of rated Maximum : 30V, Max t. Remote: Off. Maxin	Noltage: imum Sin 0~0.6V or mum Volta	k Current: r short. Lo ige: 30V, N	: 10mA. ocal: 2~30\ ⁄laximum S	/ or open.	
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 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	 	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Power sup CV/CC Mo Enable/Dis analog pro Enable/Dis	~5/10Koł ~5/10Koł ~10V, user 10V, user ply outpu nitor. Ope sable ana ogrammin sable PS o	im full sca selectable selectable it monitor n collecto og progra g control r utput by e	le, user se le, user se e. Accurac e. Accurac e. Accurac of a context context context e. CC mod mming context electrical se	lectable. / lectable. / iy: +/-0.5% iy: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper signal or d	Accuracy a Accuracy a of rated 1 of rated to of rated ttput On: 0 mode: Off electrical s n collector ry contac	and lineari Vout. lout. Dn. Outpu f. Maximu ignal or d r. Remote: t. 0~0.6V (it Off: Off. m Voltage ry contact On. Local: or short, 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxir ~30V or o	Iout. n Voltage: cimum Sin c 0~0.6V or mum Volta pen. User s	k Current: r short. Lo ige: 30V, N selectable	: 10mA. ocal: 2~30\ Aaximum S e logic.	/ or open.	
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 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	 T) 	0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power sup CV/CC Mo Enable/Dis analog pro Enable/Dis Enable/Dis	~5/10Koh ~5/10Koh ~10V, user ~10V, user ply outpunitor. Ope sable anal ogrammin sable PS c sable PS c	in full sca selectable selectable it monitor n collecto og progra g control r utput by e utput by e	le, user se e, user se e. Accurac e. Accurac e. Accurac of r. CC mod mming co monitor si electrical electrical	lectable, / lectable, / lectable, / y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV e: On. CV ontrol by e gnal. Oper signal or d	Accuracy a Accuracy a 5 of rated 5 5. of rated tiput On: (electrical s n collector ry contac ry contac	and linear Vout. lout. Dn. Outpu f. Maximuu f. Maximuu f. Maximuu f. Remote: t. 0~0.6V o t. Remote:	ity: +/-0.5 it Off: Off. m Voltage ry contact On. Local: pr short, 2 : 0~0.6V o	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxii ~30V or o r short. Lc	Voltage: imum Sin 0~0.6V or mum Volta pen. User scal: 2~30V	k Current: r short. Lo ge: 30V, N selectable / or open.	: 10mA. ocal: 2~30\ Aaximum S e logic.	/ or open.	
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 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 7. Programmed signals	 T) 	0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0- CV/CC Mo Enable/Di: analog pro Enable/Di: Enable/Di: Two open	~5/10Koh ~5/10Koh ~10V, user ~10V, user ~10V, user ply outpunitor. Ope sable ana ogrammin sable PS co sable PS co drain pro	m full sca selectable selectable it monitor n collecto og progra g control r utput by e utput by e grammabl	le, user se le, user se e. Accurace e. Accurace . Open co r. CC mod mming co nonitor si electrical si electrical si electrical si	lectable / lectable / y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper ignal or d ignal or d Maximun	Accuracy a Accuracy a 5 of rated 5 of rated 6 of rated 7 of rated	and lineari Vout. lout. Dn. Outpu f. Maximuu ignal or d . Remote: t. 0~0.6V o t. Remote 25V, Maxin	it Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o mum sink	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxir ~30V or o r short. Lo current 10	Noltage: imum Sini 0~0.6V or num Volta pen. User scal: 2~30V 00mA (Shu	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	: 10mA. ocal: 2~30\ Maximum S e logic. ?7V zener)	/ or open. Sink Curre	nt: 10mA.
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3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 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 7. Programmed signals	 T) 	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- CV/CC Moi Enable/Dii analog proc Enable/Dii Enable/Dii Two open Maximum	~5/10Koh ~5/10Koh ~10V, user ~10V, user ~10V	m full sca selectable selectable it monitor n collecto og progra g control r utput by e utput by e grammabl input volt Tr,Tf=1us I	le, user se le, user se e. Accurac e. Accurac . Open co r. CC mod mming co monitor si electrical : electrical : lectrical : e signals. age = 0.8 Maximum	lectable / lectable / lectable / y: +/-0.5% y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Opee gnal. Opee ignal or d ignal or d ignal or d Maximun /,Minimur , Min dela	Accuracy a Accuracy a b of rated b of rated b of rated to of rated to of rated to of rated to of rated to of rated the of rated to of rated the of r	and lineari Vout. Iout. Dn. Outpu f. Maximur ignal or d . Remote: t. 0~0.6V o t. Remote 25V, Maxir el input v	it Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o mum sink oltage = 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxir ~30V or o r short. Lo current 10	Noltage: imum Sini 0~0.6V or num Volta pen. User scal: 2~30V 00mA (Shu	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	: 10mA. ocal: 2~30\ Maximum S e logic. ?7V zener)	/ or open. Sink Curre	nt: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 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	 	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- CV/CC Mo Enable/Di Enable/Di Enable/Di Two open Maximum tw=10us n	~5/10Koh ~5/10Koh ~10V, user ~10V, user ~10V	m full sca selectable selectable it monitor n collecto og progra g control r utput by e grammabl input volt Tr,Tf=1us <i>t</i> e: 0~0.6V/2	le, user se le, user se e. Accurac e. Accurac e. Accurac d. Open co r. CC mod mming co monitor si electrical electrical e signals. age = 0.8 Maximum 2~30V or co	lectable / lectable / lectable / y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper ignal or d ignal or d Maximun /, Minimur , Min dela dry contac	Accuracy a Accuracy a b of rated b of rated b of rated to of rated to of rated to of rated to of rated to of rated the of rated to of rated the of r	and lineari Vout. Iout. Dn. Outpu f. Maximur ignal or d . Remote: t. 0~0.6V o t. Remote 25V, Maxir el input v	it Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o mum sink oltage = 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxir ~30V or o r short. Lo current 10	Noltage: imum Sini 0~0.6V or num Volta pen. User scal: 2~30V 00mA (Shu	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	: 10mA. ocal: 2~30\ Maximum S e logic. ?7V zener)	/ or open. Sink Curre	nt: 10mA.
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3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 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 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 (*15) 3.Vout programming resolution 4.lout programming resolution	···· ··· ··· ··· ··· ··· ··· ··	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di- Enable/D	~5/10Koł ~5/10Koł ~5/10Koł ~10V, user 10V, user 10V, user 10V, user sable PS co drain pro low level ninimum. al Voltago 0V (5000 Up to four ith Factor policy to four ith Factor policy to four ith Factor up to 100 20 ated outpu rated out rated out trated	m full sca selectable selectable it monitor n collecto og progra g control r utput by e grammabl input volt Tr.Tf=1us 1 e: 0~0.6V/2 hm imped (4) identicy be connece be connece power to a p stance. Re pout ro a p stance. Re pout ro a p stance. Re pout ro a p stance. Re pout voltage t current put voltage ut voltage t current put voltage t current	le, user sei le, user sei e. Accurace e. Accurace c. Open co r. CC mod mming c monitor si electrical : electrical : electr	lectable. / lectable. / y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper ignal or d dignal or d Maximun /,Minimur , Min dela dry contac il its. For mc isy chain t med value ange: 1~1 fall slew r. l in 4 mem	Accuracy a Accuracy a of rated b, of rated tiput On: (mode: Off electrical s n collector ry contac n voltage in n high levy between t. or synchro a. Progran 000mΩ. P ate. Progran 000mΩ. P ate. Progran	and lineari Vout. lout. Dn. Outpu f. Maximui ignal or d . Remote: t. 0~0.6V ot t. Remote: 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 2005 please co nize their ming via rogramm amming r. Activatior 80	ity: +/-0.54 it Off: Off. m Voltage ry contact On. Local: or short, 2 0 ~ 0.6V o mum sink oltage = 2 1ms. nsult with turn-on a the comm ing via the ange: 0.00 h by comm 100	% of rated % of rated	Iout. I Voltage: imum Sini :0~0.6V or num Volta pen. User :cal: 2~30V 00mA (Shu num high ff. n ports or t ication pc 9 V/mSec. he commu 200	k Current: r short. Lo ige: 30V, M selectable (or open. inited by 2 level inpute the front p prts or the or A/mSe inication 300	: 10mA. ccal: 2~30) Aaximum 9 e logic. :77V zener) ut = 5V po 	/ or open. Sink Current sitive edgen sitive edgen rel. mming via y the front 500	the 600
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 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 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 6. Slew rate control 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 5.Vout readback accuracy	 -	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di- Enable/D	~5/10Koł ~5/10Koł ~5/10Koł ~10V, user 10V, user 10V, user 10V, user sable analog asable PS o drain pro low level ninimum. al Voltago 0V (5000 Up to forur tith Factor plies can output p series resi nable Out table Output cated output rated output rated output rated output ated output rated rated rated rated rated rated rated rated rated rated	m full sca selectable selectable it monitor n collecto og progra g control r utput by e grammable input volt Tr,Tf=1us / tr,Tf=1us / tr,Tf	le, user see le, user see e. Accurace e. Accurace oppen co r. CC mod mming ce nonitor si electrical	lectable. / lectable. / y: +/-0.5% y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper ignal or d dignal or d Maximun /,Min dela dry contac il its. For mot isy chain t med value ange: 1~1 fall slew r. l. in 4 mem 50 0.003%	Accuracy a Accuracy a So for ated ' So of rated ' So of rated ' Intput On: ' mode: Off electrical so n collector ry contac n voltage i n high levy y between t. Dore power o synchron o synchron 000mΩ. P ate. Program	and lineari Vout. lout. Don. Output i. Maximuu iignal or d . Remote: t. 0~0.6V ot t. Remote: 25V, Maxir el input vn 1 2 pulses please co nize their ming via rogramm amming ri Activatior 80	ity: +/-0.54 it Off: Off. m Voltage ry contact On. Local: or short, 2 or o. 64 Vo mum sink oltage = 2 1ms. nsult with turn-on a the comm ing via the ange: 0.00 n by comm 100 0.011%	Maximun 300, Maxi 300, Maxi 30	Iout. I Voltage: imum Sini : 0~0.6V or num Volta pen. User : 0.2: 2~30V 00MA (Shu num high ff. ports or t ication pc 9 V/mSec. he commu 200 0.005%	k Current: r short. Lo gge: 30V, M selectable / or open. inited by 2 level input level input che front p orts or the or A/mSe	: 10mA. ccal: 2~300 Aaximum 9 e logic. :77 Zener) ut = 57 po 	/ or open. ink Currer sitive edg el. nming via y the front	nt: 10mA. e trigger: the

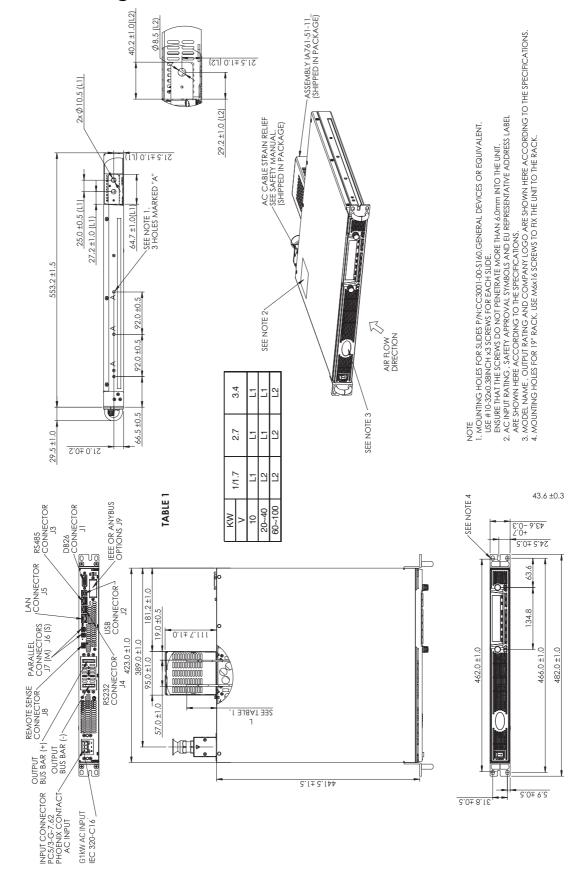
GENESYS[™] GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100		150	200	300	400	500	600	
1.Foldback protection			Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mod User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by commun															
2.Over-voltage protection (OVP)			Output sh	nut-down	. Reset by	AC input	recycle in a	autostart	mode, by	OUTPU	۲ butto	n, by r	ear pane	l or by co	nmunicat	ion.		
3.Over -voltage programming rai	nge	V					5~55.125										5~661.	
4. Over-voltage programming ac	curacy		+/-1% of r	ated out	out voltag	e												
5.Output under voltage limit (UV	L)						mit. Does r			g progran	nming	. Prese	t by fron	t panel or	communi	cation por	t.	
6.Over temperature protection						by autost	art mode											
7. Output under voltage limit (UV	L)		Prevents a	adjustme	nt of Vout	below lin	nit.											
8. Output under voltage protecti	on (UVP)		Prevents a mode, by	adjustme Power Sv	nt of Vout vitch, by C	below lin OUTPUT b	nit. P.S out utton, by r	put turns ear panel	Off durin or by cor	ng under mmunica	voltag tion.	e cond	ition. Re	set by AC	nput recy	cle in auto	start	
FRONT PANEL																		
1.Control functions			Multiple o	options w	rith 2 Enco	ders												
			Vout/lout	/Power L	imit manu	ial adjust												
			OVP/UVL/															
			Protection	n Functio	ns - OVP, l	JVL,UVP, F	oldback, 0	OCL, ENA,	ILC									
							of LAN, IEE	E,RS232,I	RS485,US	B or Opti	onal co	ommu	nication	nterface.				
			Output O															
							of Baud Ra											
							/oltage/re					0K pro	grammi	ng				
							of Voltage			ng 5V/10\	/.							
2.Display							l output vo											
							utput curi											
3.Front Panel Buttons Indications							OMMUNIC											
4. Front Panel Display Indications			Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.															
ENVIRONMENTAL CONDITIONS																		
1.Operating temperature			0~50°C, 1	00% load														
2.Storage temperature			-30~85°C											_		_	_	
3.Operating humidity		%																
			20~90% RH (no condensation).															
4.Storage humidity		%	10~95% RH (no condensation). Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).															
5.Altitude (*17)			Operating	g: 10000ff	t (3000m),	output cu	irrent dera	ting 2%/1	00m or I	a deratin	g 1°C/1	00m a	bove 200	00m. Non	operating	40000ft (*	12000m).	
MECHANICAL																		
1.Cooling			Forced air	r cooling	by interna	l fans. Air	flow direc	tion: fron	n Front pa	anel to po	ower su	upply r	ear					
2.Weight	GSP 10kW	kg	Less than	15.5kg.														
3.Dimensions (WxHxD)	GSP 10kW	mm	mm W: 423, H: 88, D: 441.5 (Without busbars and busbars cover), W: 423, H: 88, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).							g).								
2.Weight	GSP 15kW	kg	Less than	23.5kg.														
3.Dimensions (WxHxD)	ons (WxHxD) GSP 15kW mm					W: 423, H: 132.5, D: 441.5 (Without busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).												
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition 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		111 61010	1 (54.22	2 No I 610		51010-1, EN	JI 61010 1										
1.1. Interface classification	Salety		Vout≤50V	Models:	Output, J	1, J2, J3, J4	, J5, J6, J7,	J8 (sense) & J9 (coi	mmunica	tion of	otions)	are Non	Hazardou	IS.			
1.2 Withstand voltage			 Vouts50V Models: Output, J1, J2, J3, J4, J5, J6, J7, J8 (sense) & J9 (communication options) are Non Hazardous. 60≤Vouts600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Vouts50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 424 Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 424 Input - Ground: 2835VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 100V Vouts600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication option Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication option): 100V Output & J8 (sense) - Ground: 2805VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min. Input - Ground: 2805VDC 1min. 								s): 4242\ options):	'DC 1min, 4242VDC	, C 1min,					
1.3 Insulation resistance			GSP10kW	/15kW: 60) Mohm at	25°C, 709	6RH. Outp	ut to Gro	und 500	VDC								
2.Conducted emmision							, Annex H				CI-A.							
3.Radiated emission					ustrial env	/Ironment	t, Annex H	table H 3	and H4	FUC Part								

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

"NOTES:

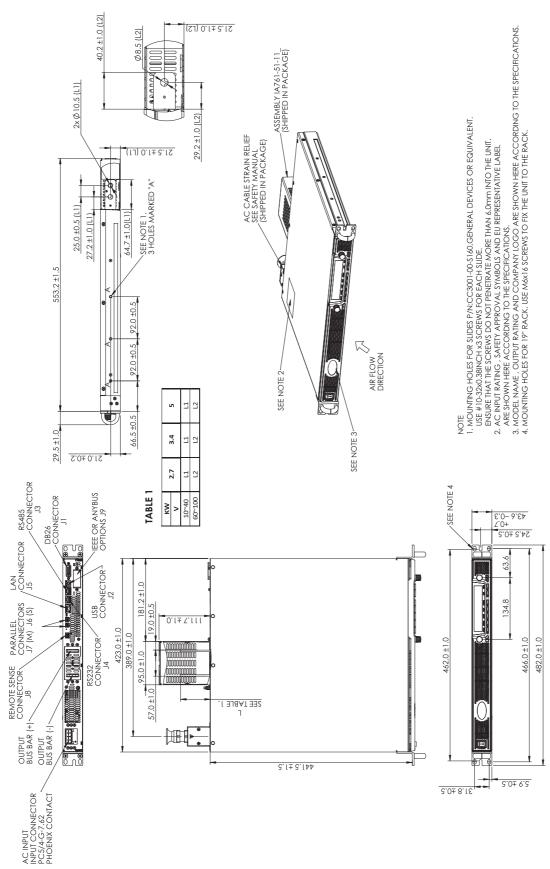
*NOTES:
*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
*3: GSP 104W: Derate 10A/1°C above 40%C.
*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described 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-9131C (1:1) probe. For 200-600V models: Measured with 100:1 probe.
*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
*11: From 10% to 90% or 90% to 10% of Rated Output Voltage.
*13: For Iod 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: For 10V model ITa 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: SP10KW For 10W model only: Max. output current for using IEEE is 1200A up to 40°C and 900A up to 30°C.
*20: SSP10KW For 10W model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.
*21: For 10W model only: For 3-Phase 200V efficiency is 88.5%
*22: Typ. at Ta=25°C, rated output power.



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

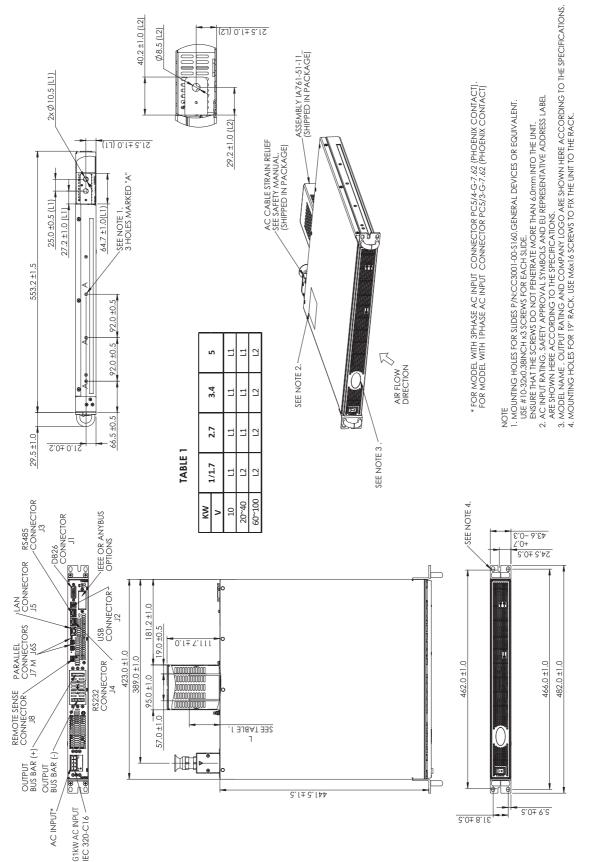
Outline Drawing GENESYS[™] G2.7kW/G3.4kW/G5kW - 3-Phase

(Not includes G+5kW models: 1000V & 1500V).

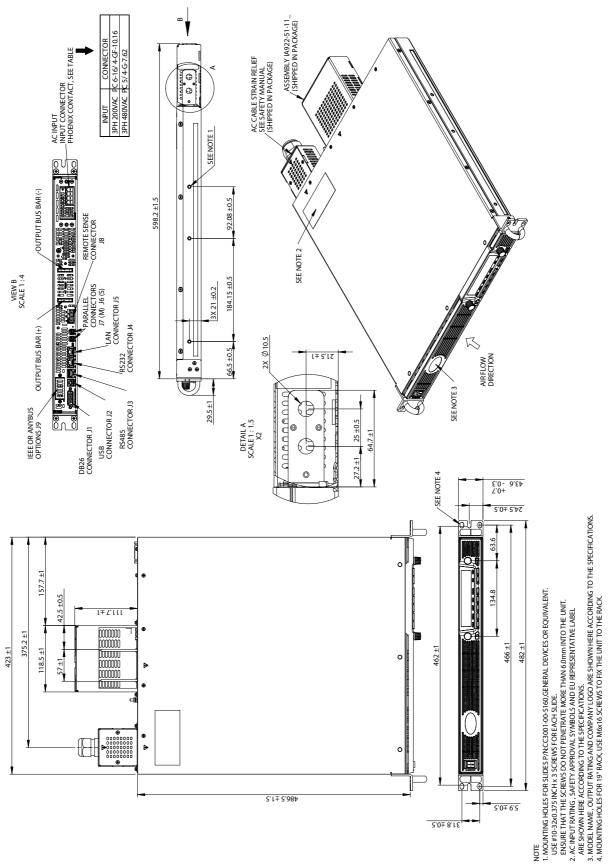


Outline Drawing GENESYS[™] GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

(Not includes G+5kW models: 1000V & 1500V).



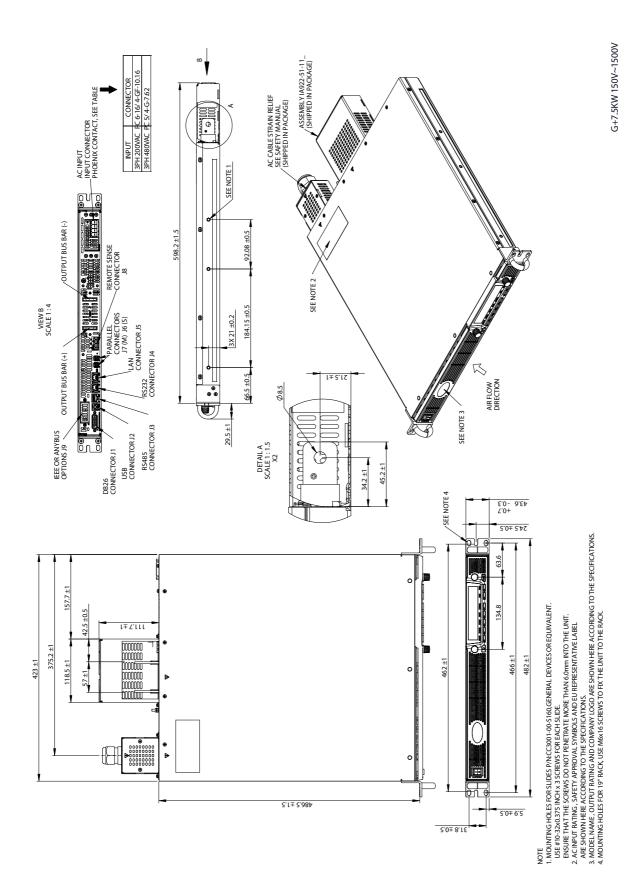
Outline Drawing GENESYS[™] G7.5kW - LV (20V-100V) 3-Phase



G+7.5KW 20V~100V

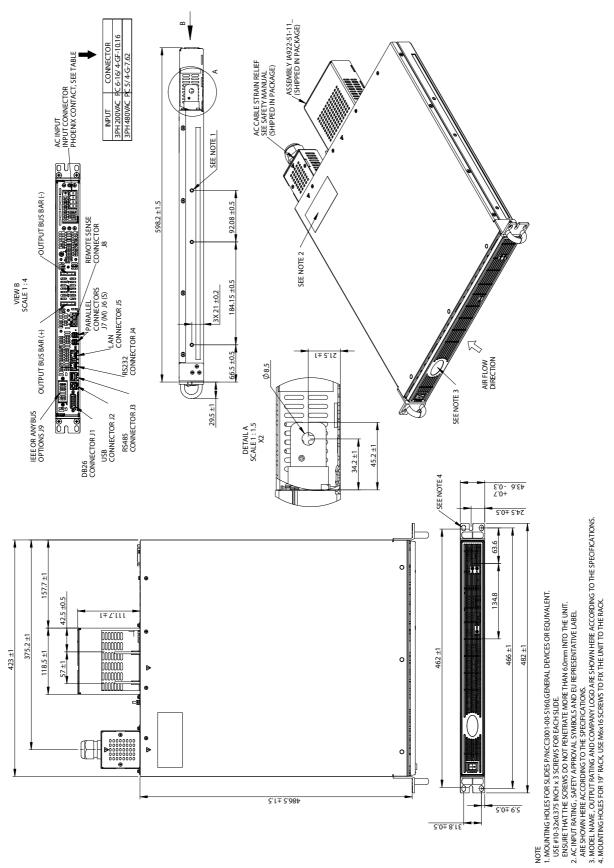
Outline Drawing GENESYS[™] G7.5kW - HV (150V-1500V) 3-Phase

(includes G+5kW models: 1000V & 1500V).



Outline Drawing GENESYS[™] GB7.5kW ATE Version

(includes G+5kW models: 1000V & 1500V).

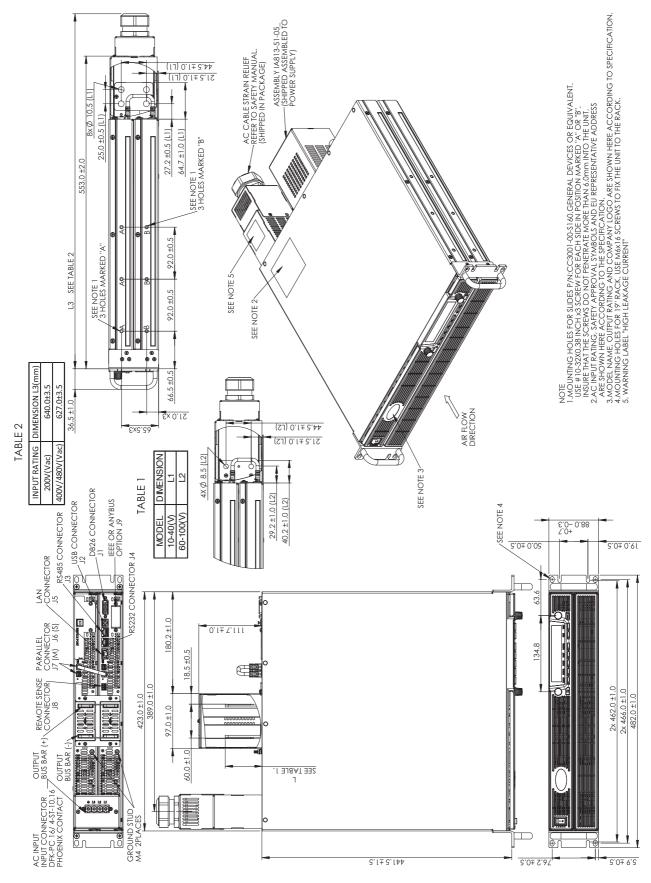


G+7.5KW BLANK 150V~1500V

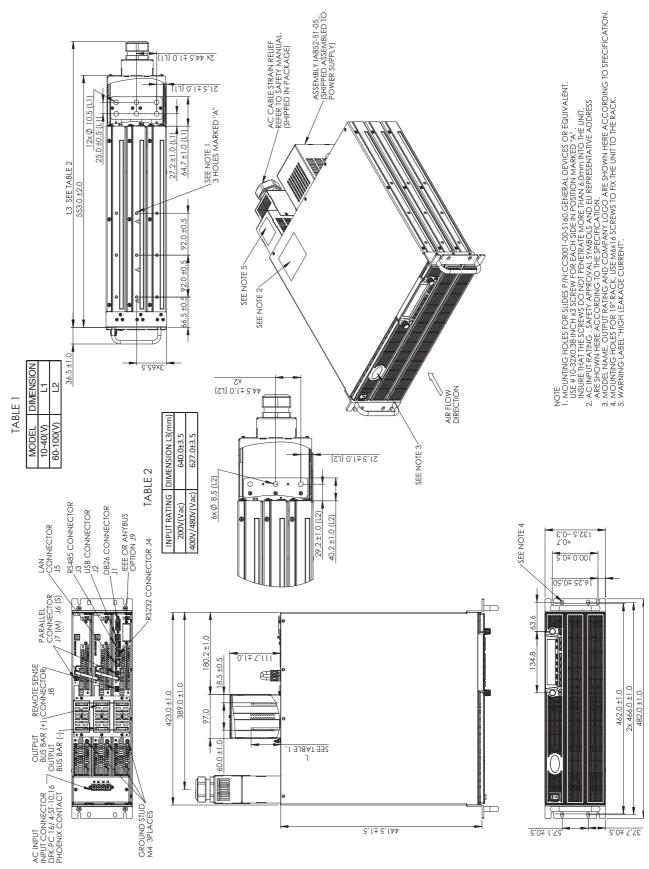
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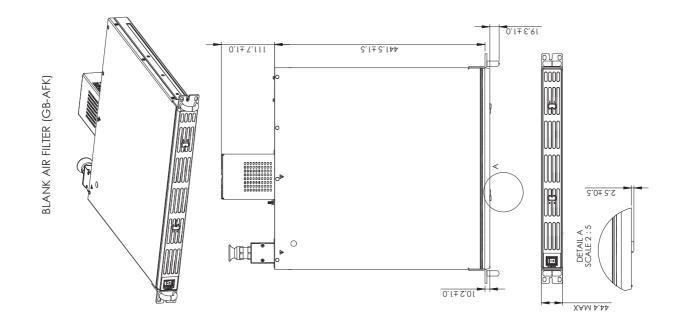
Outline Drawing GENESYS[™] GSP10kW

(includes G+5kW models: 1000V & 1500V).

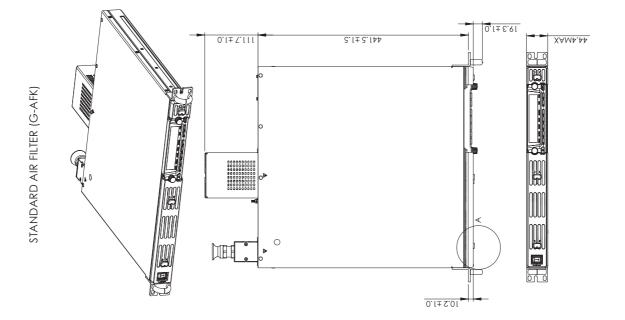


Outline Drawing GENESYS[™] GSP15kW





Outline Drawing GENESYS[™] Air Filter Kit



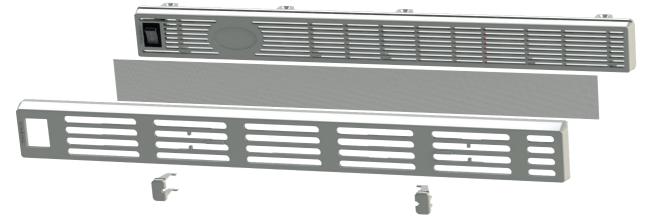
Front Panel Air Filter Assembly

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)





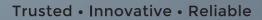


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TDK·Lambda

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