



GENESYS[™] G Series Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

! Advanced Features Built-In !

Arbitrary Waveform Generator with Auto-Trigger Capability

 Programmable Slew Rate Control (Vout/lout)

 Constant Power Limit Operation • Internal Resistance Programming

 Built-In Remote Isolated Analog Interface
 Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 Blank Front Panel Option Available





Trusted • Innovative • Reliable



The **G***E***NESYS**[™] family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

Features include:

- Leading DC Programmable power density (5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs: G1kW/1.7kW: 1ø (85~265VAC)
 G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
 G5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed controlled by ambient temperature and load
- Certified LabWindows[™]/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) 5kW units. Each unit is 1U with zero space between them (zero stack).

OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

G1kW-5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



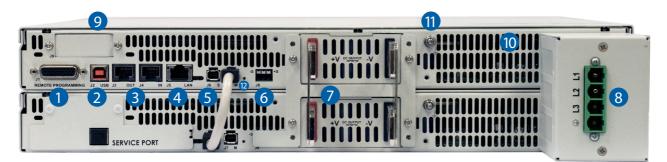
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

GSP10kW Front Panel Description

		3	4 3
	TDK-Lambda		
	GSP16-100 LOUVO-1000A DC Power Supply	PROG SYST/6 CONF PR	
-1		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

GSP10kW Rear Panel Description



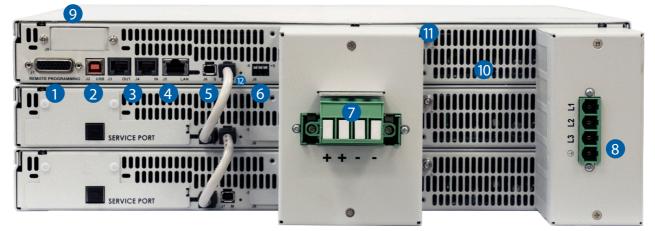
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

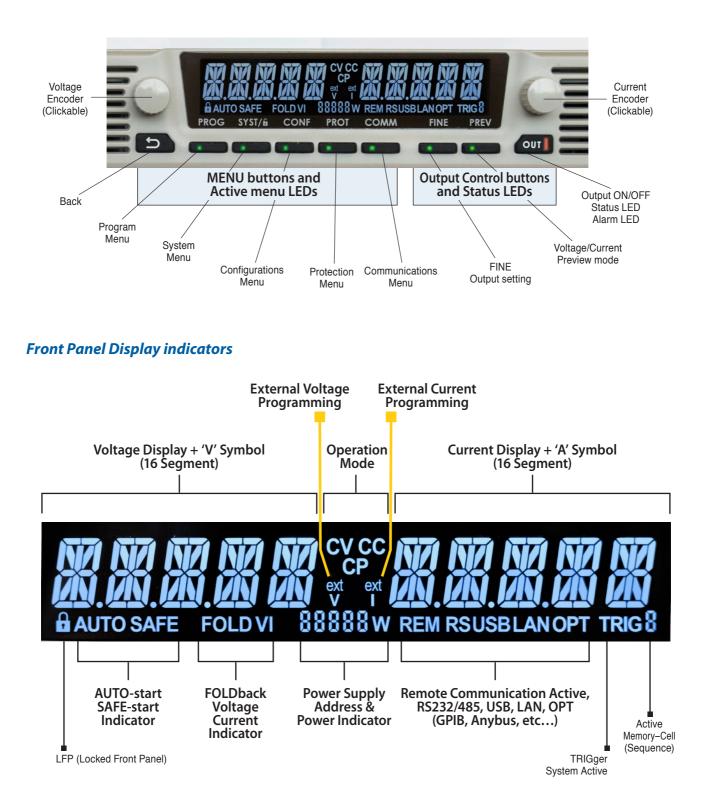
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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



GENESYS[™] G&GSP Series



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 Standard Unit - zero stacked up to 12 units



Series operation

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

Multi-Drop Remote Programming via Communication Interface

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

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

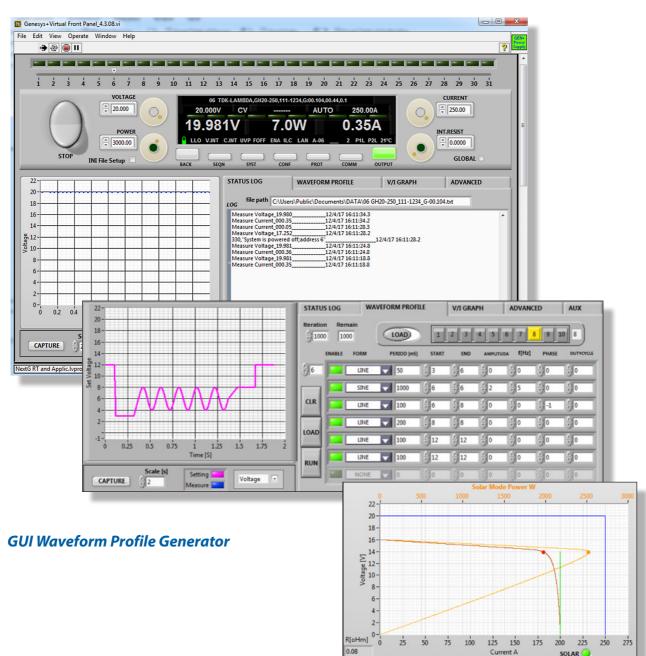


LAN, USB, RS-232, RS-485, IEEE, AnyBus

Graphical User Interface

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

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



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

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 Panel	(ATE version)			J - Japan	P - Bus Parralleling Cable
			Ť.	C - China	
AC Inputs (All M	odels)			I - Middle East	
1Ø, 85 ~ 265Vac					
Interface Optio			P/N		
USB 2.0 compliant v		,	-		
RS-232/RS-485 - bi	uilt-in		-		
Isolated Analog Prog	gram/Monitor Int	erface	-		
(5V/10V Pgm/Mon w					
IEEE (488.2 & SCPI (compliant with M	ulti-Drop capability ir	,		
Modbus-TCP			MDBS		
EtherCAT Models 1kW			ECAT		
Model Vo	ltage (V)	Current (A) Pov	ver (W) Model	Voltage (V) Curr	rent (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	Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
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	G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5	1000
G40-25 0~40V 0~25 1000 G300-3.5 0~300V 0~3.5 1050	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
G60-17 0~60V 0~17 1020 G600-1.7 0~600V 0~1.7 1020	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 **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	

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

G	10 -	340			
Series Name	Output	Output	InterfaceOptions	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current	:	1P208 (Single Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase 170~265VAC)	* User Manual & GUI are available on the website
B: Blank Front Panel	(ATE version)			3P400 (Three Phase 342~460VAC)	available on the website
				3P480 (Three Phase 342~528VAC)	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	built-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon			-		
IEEE (488.2 & SCPI con	npliant with Multi-[, Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

Models G2.7kW

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 Ca	ables	P/N
2013595-1 (TYCO) Sh	hielded L=11cm	G/P

4. User Manual

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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
					P - Bus Parralleling Cable
			V		
Interface Optic	ons (Factor	y installed)	P/N		
LAN (LXI 1.5 complia	nt with Multi-Dro	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	0		-		
IEEE (488.2 & SCPI con	pliant with Multi-E	Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

Models 5kW

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

Accessories

Accessories will be sent separately from the Power Supply packing, according to order. **1. Serial Communication cable**

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

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

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

Daisy-chain up to 31 **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: 20kW/30kW

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

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

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 (AT	TE version)			3P480 (Three Phase 342~528VAC)	available on the website
Interface Options LAN (LXI 1.5 compliant with RS-232/RS-485 - built Isolated Analog Progra (5V/10V Pgm/Mon with IEEE (488.2 & SCPI complia Modbus-TCP EtherCAT	with Multi-Drop o n Multi-Drop o -in Im/Monitor In 600V isolatic ant with Multi-D	p capability)- built-in capability - built-in terface n) - built-in	♥ P/N - - - IEEE MDBS ECAT		

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)

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

Printed User Manual	G/M

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

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

AC Input Range

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

Model

GH80-12.5

GH100-10

GH150-7

GH300-3.5

GH600-1.7

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



Voltage (V)

0~80V

0~100V

0~150V

0~300V

0~600V

Current (A)

0~12.5

0~10

0~7

0~3.5

0~1.7

Power (W)

1000

1000

1050

1050

1020

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

G^ENESYS[™] 1kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2) 3.Rated output power	A	100	50 1000	34 1020	25 1000	17 1020	12.5 1000	10 1000	7 1050	3.5 1050	1.7
	-	1 1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5									
8.Power Factor (Typ)			c 0.98 @ 200				1				
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/	Ą								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.01% of rate	d output volta	ae							
.Max. Load regulation (*7)			d output volta								
Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
	-							12	9	20	100
.Temperature coefficient	PPM/°C				lowing 30 min			1 10.			
5.Temperature stability					lowing 30 min				p.		
'. Warm-up drift		Less than 0.0	1% of rated ou	tput voltage-	⊦2mV over 30 n	ninutes follov	ving power on				
B.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
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
					n 0.5% of its ra						
11.Transient response time	mS				models up to						. set poin
2.Start up delay	Sec	Less than 6 Se									
3.Hold-up time	mS				201	ns typical, rat	ed output pov	ver			
	-										
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.02% of rate	d output curre	ent. +2mA							
Max. Load regulation (*9)		0.02% of rate	d output curre	ent. +5mA							
Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
		10V~100V	100PPM/°C fr	om rated out	out current, fol	lowing 30 mi	nutes warm-u).			
.Temperature coefficient	PPM/°C				ut current, follo	÷					
.Temperature stability					lowing 30 min	-			perature		
					ated output cu						
'. Warm-up drift									/11.		
		1500~6000:1	ess than +/-0.	15% of rated (output current	over 30 minu	tes following	bower on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	/out.			
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.			
B.Vout resistor programming					ectable. Accura	,					
I.lout resistor programming (*14)					ectable. Accura						
					r: +/-0.5% of ra	,	ILY. #/-0.3% 01	Tateu lout.			
5.Output voltage monitor	-										
5.Output current monitor (*14)		0~5V or 0~10	lv, user selecta	able. Accuracy	r: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPO	JT)										
I. Power supply OK #1 signal		Power supply	output moni	tor. Open coll	ector. Output (On: On. Outp	ut Off: Off. Max	imum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal		,		· · ·	: On. CV mode						
B. LOCAL/REMOTE Analog control					ntrol by electri						on
LOCAL/REMOTE Analog control				· · · · · · · · · · · · · · · · · · ·	nal. Open colle						
											nent: IUff
ENABLE/DISABLE signal					gnal or dry cor					ugic.	
. INTERLOCK (ILC) control					gnal or dry cor				· · · · · · · · · · · · · · · · · · ·		
7. Programmed signals		· ·			Maximum volta	age 25V, Maxi				-	
B. TRIGGER IN / TRIGGER OUT signals				it voltage = (e = 2.5V. Max	kimum high l	evel input =	
		leade tridde	$r \cdot t_{W} = 1() u \le m$		0.8V,Minimur						5V positi
	-				f=1us Maxim				5.	-	5V positi
. DAISY_IN/SO control signal		,	Voltage: 0~0.6	V/2~30V or di	f=1us Maxim				5.	•	5V positi
. DAISY_IN/SO control signal		,		V/2~30V or di	f=1us Maxim				5.		5V positi
DAISY_IN/SO control signal		,	Voltage: 0~0.6	V/2~30V or di	f=1us Maxim				5.	·	5V positi
DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES		4~5V=OK, 0\	Voltage: 0~0.6 / (500ohm imp	V/2~30V or di edance)=Fail	ff=1us Maxim ry contact.	um, Min del	ay between i	2 pulses 1ms	5	·	5V positi
. DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES . Parallel operation		4~5V=OK, 0V Possible. Up	Voltage: 0~0.6 / (500ohm imp to 4 identical u	W/2~30V or di bedance)=Fail units in Maste	r/Slave mode. F	um, Min del	ay between i	2 pulses 1ms	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	5V positi
DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES . Parallel operation . Series operation		4~5V=OK, 0V Possible. Up Possible. Two	Voltage: 0~0.6 / (500ohm imp to 4 identical u) identical unit	W/2~30V or dr bedance)=Fail units in Maste s. Refer to ins	rf=1us Maxim ry contact. r/Slave mode. F truction manu	um, Min de Refer to instru al.	ay between a	2 pulses 1ms	5.		5V positi
. DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES . Parallel operation . Series operation . Daisy chain	 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be coni	W/2~30V or di pedance)=Fail units in Master s. Refer to ins nected in Dais	rf=1us Maxim ry contact. r/Slave mode. F truction manu sy chain to synd	um, Min del Refer to instru al. chronize thei	ay between a action manual. r turn-on and t	2 pulses 1ms			5V positi
DAISY_IN/SO control signal ODAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control	 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou	Voltage: 0~0.6 / (500ohm imp to 4 identical u dentical unit es can be con tput power to	W/2~30V or di pedance)=Fail units in Maste s. Refer to ins nected in Dais a proggramn	rf=1us Maxim ry contact. r/Slave mode. F truction manu sy chain to syne ned value. Prog	um, Min del Refer to instru al. chronize thei gramming via	ay between i action manual. r turn-on and t the communi	2 pulses 1ms urn-off. cation ports c	or the front pa		5V positi
. DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES . Parallel operation . Series operation . Daisy chain . Constant power control	 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser	Voltage: 0~0.6 / (5000hm imp to 4 identical u o identical unit es can be con tput power to ies resistance.	V/2~30V or di bedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra	r/Slave mode. F r/Slave mode. F truction manu sy chain to syn- ned value. Prog nge: 1~1000m	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm	ay between i iction manual. r turn-on and t the communi ing via the coi	2 pulses 1ms urn-off. cation ports c nmunication	or the front pa ports or the fr	ont panel.	
. DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control	 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmab	Voltage: 0~0.6 / (5000hm imp to 4 identical u o identical unit es can be com tput power to ies resistance. ole Output rise	V/2~30V or di pedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra and Output f	rf=1us Maxim ry contact. r/Slave mode. F truction manu sy chain to syne ned value. Prog	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm	ay between i iction manual. r turn-on and t the communi ing via the coi	2 pulses 1ms urn-off. cation ports c nmunication	or the front pa ports or the fr	ont panel.	
DAISY_IN/SO control signal 0.DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control . Slew rate control	 	A~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be com tput power to ies resistance. le Output rise ion ports or th	V/2~30V or di vedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel.	r/Slave mode. F r/Slave mode. F truction manu sy chain to syn- ned value. Prog nge: 1~1000m all slew rate. Pr	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm rogramming i	ay between : iction manual. r turn-on and t the communi ing via the cor range: 0.0001~	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe	or the front pa ports or the fr ec. or A/mSec.	ont panel. Programming	via the
DAISY_IN/SO control signal 0.DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control . Slew rate control	 	A~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be com tput power to ies resistance. le Output rise ion ports or th	V/2~30V or di vedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel.	r/Slave mode. F r/Slave mode. F truction manu sy chain to syn- ned value. Prog nge: 1~1000m	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm rogramming i	ay between : iction manual. r turn-on and t the communi ing via the cor range: 0.0001~	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe	or the front pa ports or the fr ec. or A/mSec.	ont panel. Programming	via the
ADAISY_IN/SO control signal ADAISY_OUT/PS_OK #2	 	A~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be com tput power to ies resistance. le Output rise ion ports or th	V/2~30V or di vedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel.	rf=1us Maxim ry contact. r/Slave mode. F truction manu sy chain to syn- ned value. Prog nge: 1~1000m all slew rate. Pr	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm rogramming i	ay between : iction manual. r turn-on and t the communi ing via the cor range: 0.0001~	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe	or the front pa ports or the fr ec. or A/mSec.	ont panel. Programming	via the
DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control . Slew rate control . Slew rate control . Slew rate control . Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, \$232/485, Optional IEEE (*16) Interfaces)	 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10	Voltage: 0~0.6 / (5000hm imp to 4 identical u o identical unit es can be com tput power to ies resistance. ole Output rise ion ports or th to 100 steps c	W/2~30V or di bedance)=Fail units in Master s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel. can be stored 30	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog nge: 1~1000m all slew rate. Pri in 4 memory co	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm rogramming i ells. Activatio	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication po	ont panel. Programming orts or by the fr	via the ont pane
DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control . Slew rate control . Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, SIZS12/485, Optional IEEE (*16) Interfaces) . Vout programming accuracy (*15)	 V	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat Profiles of up 10 0.05% of rate	Voltage: 0~0.6 / (5000hm imp to 4 identical u i identical unit es can be com tput power to ies resistance. ole Output rise ion ports or th to 100 steps c 20 d output volta	W/2~30V or di bedance)=Fail units in Maste s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel. can be stored 30 age	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog- nge: 1~1000m all slew rate. Pri in 4 memory co 40	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication po	ont panel. Programming orts or by the fr	via the ont pane
DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation . Daisy chain . Constant power control . Output resistance control . Slew rate control . Slew rate control . Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, IS232/485, Optional IEEE (*16) Interfaces) . Vout programming accuracy (*15) . Iout programming accuracy (*14)	 V V	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat Profiles of up 10 0.05% of rate 0.1% of actual	Voltage: 0~0.6 / (5000hm imp to 4 identical unit es can be com tput power to ies resistance. ble Output rise ion ports or th to 100 steps c 20 d output volta il output curre	V/2–30V or di eedance)=Fail units in Mastee s. Refer to ins nected in Dais a proggramn Resistance ra Resistance ra Resistance ra eront panel. :an be stored 30 age nt+0.2% of ra	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog nge: 1~1000m all slew rate. Pri in 4 memory co	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication po	ont panel. Programming orts or by the fr	via the ont pane
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Origon Control Output resistance control Output resistance control Selw rate control Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, IS232/485, Optional IEEE (*16) Interfaces) Nout programming accuracy (*15) Lout programming accuracy (*14) Wout programming resolution	 V V	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmak communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rate	Voltage: 0~0.6 / (500ohm imp i dentical unit o i dentical unit es can be com tput power to ies resistance. le Output rise ion ports or th to 100 steps c 20 d output volta il output volta	V/2–30V or di eedance)=Fail units in Maste s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel. an be stored 30 ge nt+0.2% of ra tage	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog- nge: 1~1000m all slew rate. Pri in 4 memory co 40	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication po	ont panel. Programming orts or by the fr	via the ont pane
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Oaisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, S232/485, Optional IEEE (*16) Interfaces) Nout programming accuracy (*15) Lout programming resolution	 V V V	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	Voltage: 0~0.6 / (500ohm imp to 4 identical unit es can be com tput power to lee Output rise ion ports or th to 100 steps of 20 d output volta al output curre ted output volta	V/2~30V or di eedance)=Fail units in Mastee s. Refer to ins nected in Dais a proggramn Resistance ra and Output f e front panel. and be stored 30 age nnt+0.2% of ra tage rent	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog- nge: 1~1000m all slew rate. Pri in 4 memory co 40	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication po	ont panel. Programming orts or by the fr	via the ont pane
ADAISY_IN/SO control signal ADAISY_OUT/PS_OK #2 signal ADAISY_ONTON ADAISY_ANAINA	V V 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up 10 0.05% of rate 0.002% of rate 0.002% of rate	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be com tput power to ies resistance. le Output rise ion ports or th to 100 steps or 20 d output volta il output volta red output volta	V/2–30V or di eedance)=Fail units in Mastee s. Refer to ins neected in Dais a proggramm Resistance ra and Output f e front panel. an be stored 30 age nt+0.2% of ra tage rent age	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog- nge: 1~1000m all slew rate. Pri in 4 memory co 40	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication pc	ont panel. Programming rts or by the fr 300	via the ont panel 600
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES In Parallel operation Series operation Constant power control Coutput resistance control Solut resistance control Solw rate control Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, S5232/485, Optional IEEE (*16) Interfaces) Ivout programming accuracy (*15) Lout programming resolution Suot programming resolution Suot programming resolution Suot programming resolution Suot readback accuracy Suot readback accuracy	····	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.002% of rate 0.002% of rate 0.005% of rate	Voltage: 0~0.6 / (500ohm imp to 4 identical unit es can be conni to to to to to to to to ies resistance. De Output rise ion ports or th to 100 steps of 20 d output volta al output curre read output curre d output curre ad output curre ad output curre	V/2-30V or di eedance)=Fail units in Mastet s. Refer to ins nected in Dais a proggramm Resistance ra and Output f e front panel. an be stored 30 ge nt+0.2% of ra tage rent age	rf=1us Maxim ry contact. r/Slave mode. F truction manu sy chain to syn- ned value. Prog nge: 1~1000m all slew rate. Pri in 4 memory co 40 ted output cur	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming i ells. Activatio 60 rent	ay between a second sec	2 pulses 1ms urn-off. cation ports c mmunication 999.99 V/mSe d via the comm 100	or the front pa ports or the fr ec. or A/mSec. munication pc 150 0.25% of rate	ont panel. Programming rts or by the fr 300	via the ont panel 600
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 (*16) Interfaces) 1. Vout programming accuracy (*15) 2. Lout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Jout readback accuracy (*14) 3. Vout readback accuracy (*14) 5. Jout readback accuracy (*14) 7. Vout readback accuracy (*14)	V V 	4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up 10 0.05% of rate 0.002% of rate 0.002% of rate	Voltage: 0~0.6 / (500ohm imp to 4 identical u o identical unit es can be com tput power to ies resistance. le Output rise ion ports or th to 100 steps or 20 d output volta il output volta red output volta	V/2–30V or di eedance)=Fail units in Mastee s. Refer to ins neected in Dais a proggramm Resistance ra and Output f e front panel. an be stored 30 age nt+0.2% of ra tage rent age	r/Slave mode. F r/Slave mode. F truction manu sy chain to synu- ned value. Prog- nge: 1~1000m all slew rate. Pri in 4 memory co 40	um, Min del Refer to instru al. chronize thei gramming via Ω. Programm ogramming vi ells. Activatio 60	ay between a action manual. (turn-on and t the communi ing via the cor range: 0.0001~ n by command	2 pulses 1ms urn-off. cation ports c nmunication 999.99 V/mSe d via the comm	or the front pa ports or the fr ec. or A/mSec. munication pc	ont panel. Programming rts or by the fr 300	via the ont panel

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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
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
I.Input voltage/freq. (*3)		85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						
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, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50A	1								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
I.Max. Line regulation (*6)			d output volta		40	00	00	100	150	500	000
· · · · · · · · · · · · · · · · · · ·			d output volta								
2.Max. Load regulation (*7)	-					60	75	75	75	120	500
Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient	PPM/°C	50PPM/°C fro									
5.Temperature stability		0.01% of rate	d Vout over 8h	nrs interval fol	lowing 30 min	utes warm-u	o. Constant lin	e, load & tem	р.		
7. Warm-up drift		Less than 0.0	1% of rated ou	tput voltage-	-2mV over 30 r	ninutes follov	ving power on				
B.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
.Up-prog. Response time (*11)	mS	20	20	20	20	20	20	25	50	100	100
Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
0.Down-prog.response time:	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
No load (*12)	cin _										
11.Transient response time	mS	10~100% Lo	out voitage to cal sense Tess	than 1mS for	n 0.5% of its ra r models up to	and including	i a ioad chang i 100V, 2mS fr	e 10~90% of I or models abo	rated output co ove 100V.	urrent. Outpu	i set-point
12.Start up delay	Sec	Less than 6 Se					2.000.2000,10				
3.Hold-up time	mS	2035 (10110 30			16.	ms typical rat	ed output pov	wor			
Sanoid-up time	1115				161	ins typical, rai	ea output pol	vel			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.01% of rate	d output curre	ent. +2mA							
Max. Load regulation (*9)		0.02% of rate	d output curre	ent. +5mA	-		-				
Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
imple inits. @ fatea voltage. b.w sriz fimitz. (15)					out current, fol				10		
.Temperature coefficient	PPM/°C										
	-				ut current, follo	-					
.Temperature stability					lowing 30 min						
. Warm-up drift		10V~100V mc	odel: Less thar	n +/-0.25% of I	ated output c	urrent over 30) minutes follo	wing power o	on.		
		150V~600V: L	ess than +/-0.	15% of rated of	output current	over 30 minu	tes following	oower on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE											
			101/00		A	line and the set of the	150/ - 6 +	1			
.Vout voltage programming					Accuracy and						
2.lout voltage programming (*14)					Accuracy and						
8.Vout resistor programming		0~100%, 0~5	/10Kohm full s	scale, user sel	ectable. Accura	acy and linea	ity: +/-0.5% of	rated Vout.			
l.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full s	scale, user sel	ectable. Accura	acy and linea	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor		0~5V or 0~10	V, user selecta	able. Accuracy	r: +/-0.5% of ra	ted Vout					
5.Output current monitor (*14)		0~5V or 0~10	V, user selecta	able. Accuracy	r: +/-0.5 of rate	d lout.%.					
					-						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP											_
I. Power supply OK #1 signal									je: 30V, Maximi		nt: 10mA.
2. CV/CC signal		CV/CC Monite	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30	V, Maximum S	Sink Current: 10	DmA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming co	ntrol by electri	ical signal or o	lry contact. Re	mote: 0~0.6V	/ or short. Loca	l: 2~30V or op	en.
1. LOCAL/REMOTE Analog signal		analog progr	amming contr	ol monitor sig	nal. Open colle	ctor. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Max	kimum Sink Cu	irrent: 10m
5. ENABLE/DISABLE signal									er selectable lo		
5. INTERLOCK (ILC) control			· · · ·		gnal or dry cor						
. Programmed signals			·		<i>,</i>				hunted by 27V	(zener)	
						•					5V po -:/ '
8. TRIGGER IN / TRIGGER OUT signals		edge triage	r: tw=10us m	ninimum Tr	f=1us Maxim	n nigh level num, Min del	av between	= = 2.5 V, IVIA) 2 pulses 1ms	ximum high l s.	ever input =	ov positi
9. DAISY_IN/SO control signal				5V/2~30V or di		,	-,	- 20.505 1113			
0. DAIST_IN/SO CONTO SIGNAL 0. DAISY OUT/PS OK #2 signal	-				y contact.						
U. DAIST_UUI/PS_UN #2 signal		14~3V=UK, 0V	(SUUONM IMP	pedance)=Fail							
UNCTIONS AND FEATURES											
. Parallel operation		Possible. Un t	o 4 identical ι	units in Maste	r/Slave mode. I	Refer to instru	iction manual.				
2. Series operation					truction manu						
3. Daisy chain					y chain to syn		turn-on and t	urn-off			
,	-				, ,						
. Constant power control			<u> </u>	1 33				· ·	or the front par		
. Output resistance control					-		-		ports or the fr	· · ·	
. Slew rate control		Programmab	le Output rise	and Output f	all slew rate. Pr	rogramming	ange: 0.0001~	999.99 V/mSe	ec. or A/mSec. l	Programming	via the
				e front panel.							
		Protiles of up	to 100 steps of	can be stored	in 4 memory c	ells. Activatio	n by command	d via the com	munication po	rts or by the fi	ront panel
				30	40		0.0	100	150	200	
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN.		10	20		40	60	80	100	150	300	600
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN.		10	20	30						500	
Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, IS232/485, Optional IEEE (*18) Interfaces)			20 d output volta							500	
. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, IS232/485, Optional IEEE (*18) Interfaces) .Vout programming accuracy (*15)	v	0.05% of rate	l d output volta	l age	ted output cur	rrent					
. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, IS232/485, Optional IEEE (*18) Interfaces) .Vout programming accuracy (*15) .lout programming accuracy (*14)	V	0.05% of rate 0.1% of actua	d output volta l output curre	l age :nt+0.2% of ra	ted output cur	rrent					
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, S232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution	V 	0.05% of rate 0.1% of actua 0.002% of rat	d output volta l output curre ed output vol	l age :nt+0.2% of ra tage	ted output cur	rrent					
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, S2321/485, Optional IEEE (*18) Interfaces) Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution	V 	0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	d output volta l output curre ed output vol ed output cur	age ent+0.2% of ra tage rrent	ted output cur	rrent					
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) I.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V 	0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	d output volta l output curre ed output vol ed output cur ed output cur	age ht+0.2% of ra tage rent age	ted output cur	rrent					
Arbitrary waveforms	V 	0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	d output volta l output curre ed output vol ed output cur	age ht+0.2% of ra tage rent age	ted output cur	rrent					
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, S2321/485, Optional IEEE (*18) Interfaces) Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution	V 	0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	d output volta l output curre ed output vol ed output cur ed output cur	age ht+0.2% of ra tage rent age	ted output cur	0.002%	0.002%	0.011%	0.007%	0.004%	0.0029

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

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600	
1.Foldback protection										om CC or Powe on, by rear par			
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input red	ycle in autost	art mode, by	OUTPUT butto	on, by rear par	el or by comm	nunication.		
3.Over -voltage programming rang	je	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	
I. Over-voltage programming accu	iracy		+/-1% of rated	l output volta	ige								
5.Output under voltage limit (UVL)			Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port. Shuts down the output. Auto recovery by autostart mode.										
6.Over temperature protection			Shuts down t	he output. Au	to recovery by	y autostart mo	de.						
7. Output under voltage limit (UVL)			Prevents adju	stment of Voi	ut below limit								
3. Output under voltage protectior	ו (UVP)		Prevents adju mode, by Pov	stment of Vou ver Switch, by	ut below limit OUTPUT butt	. P.S output tu on, by rear pa	rns Off during nel or by com	under voltag munication.	e condition. R	eset by AC inp	ut recycle in a	utostart	
FRONT PANEL													
1.Control functions			Multiple opti	ons with 2 End	oders								
			Vout/lout/Po	wer Limit mar	nual adjust								
			OVP/UVL/UVI										
			Protection Fu	nctions - OVP	, UVL,UVP, Fol	dback, OCL, El	NA, ILC						
						LAN, IEEE, RS2		or Optional c	ommunication	n interface.			
			Output ON/O	FF. Front Pane	el Lock.								
						Baud Rate, Ad							
			Analog Contr	ol Functions -	Selection Vol	tage/resistive	programmin	g, 5V/10V, 5K/	0K programm	ning			
			Analog Monit	or Functions	- Selection of	Voltage/Curre	nt Monitoring	g 5V/10V.					
2.Display			Vout: 4 digits	accuracy: 0.0	5% of rated o	utput voltage	+/-1 count.						
			lout: 4 digits,	accuracy: 0.29	% of rated out	put current +/	-1 count.						
3. Front Panel Buttons Indications			OUTPUT ON,	ALARM, PREV	IEW, FINE, COI	MMUNICATION	N, PROTECTIO	N,CONFIGUR/	TION, SYSTEM	A, SEQUENCER			
4. Front Panel Display Indications			Voltage, Curr (communicat	ent, Power, CV ion), RS/USB/L	/, CC, CP, Exter _AN/IEEE com	nal Voltage, E: munication, Ti	xternal Currei rigger, Load/S	nt, Address, LF Store Cell.	P, Autostart, S	afetstart, Fold	back V/I, Rem	ote	
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 100%	load.									
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RH (r	no condensati	ion).								
4.Storage humidity		%	10~95% RH (r	o condensati	on)								
5.Altitude						ont dorating 2	%/100m or To	doroting 1°C/	00m abovo 2	000m. Non ope	arating: 40000	ft (12000m	
			operating. to	00011 (5000111	, output curre			defating f C/				11 (1200011	
MECHANICAL													
1.Cooling			Forced air co	oling by interr	nal fans. Air flo	w direction: fi	rom Front par	nel to power si	upply rear				
2.Weight		kg	Less than 5kg										
3.Dimensions (WxHxD)		mm				isbars and bu ousbars and b)utline drawi	ing).			
4.Vibration			MIL-810G, me	thod 514.6, Pi	rocedure I, tes	t condition Ar	nnex C - 2.1.3.	1					
5.Shock			Less than 200	i, half sine, 11r	mSec. Unit is ι	inpacked.							
SAFETY/EMC													
1.Applicable standards:	Safety G1kW/G1.7kW		UL61010-1, C	A22.2 No.610	10-1, IEC61010)-1, EN61010-1							
1.1. Interface classification	G1kW/1.7kW		Vout≤50V Mo 60≤Vout≤600	dels: Output, IV Models: Ou	J1, J2, J3, J4, J tput & J8 (sen	5, J6, J7, J8 (ser se) are hazard	nse) & J9 (com ous, J1, J2, J3,	munication o J4, J5, J6, J7 &	ptions) are No J9 (communio	n Hazardous. ation options	are Non Haza	ardous.	
1.2 Withstand voltage	G1kW/1.7kW		Input - Groun 60V≤Vout≤10 Output & J8 Output & J8 100V <vout≤0< td=""><td>nd: 2835VDC DOV Models: (sense) - J1, (sense) - Gro 500V Models (sense) - J1, (sense) - Gro</td><td>C 1min. Input – Outp J2, J3, J4, J5 ound: 1500VE Input – Outj J2, J3, J4, J5 ound: 2500VE</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, J3</td><td>, J4, J5, J6, J ation options) 2835VDC 1m 3, J4, J5, J6,</td><td>7 & J9 (comr 850VDC 1m n. J7 and J9 (co</td><td>mmunication</td><td>tions): 4242\</td><td>/DC 1min,</td></vout≤0<>	nd: 2835VDC DOV Models: (sense) - J1, (sense) - Gro 500V Models (sense) - J1, (sense) - Gro	C 1min. Input – Outp J2, J3, J4, J5 ound: 1500VE Input – Outj J2, J3, J4, J5 ound: 2500VE	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, J3	, J4, J5, J6, J ation options) 2835VDC 1m 3, J4, J5, J6,	7 & J9 (comr 850VDC 1m n. J7 and J9 (co	mmunication	tions): 4242\	/DC 1min,	
					; 1min.								
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.		ound 500VDC							
1.3 Insulation resistance 2.Conducted emmision			+		Output to Gro	ound 500VDC	H.1 , FCC Part	15-A, VCCI-A .					
			IEC/EN61204-	3 Industrial ei	Output to Gro nvironment, A				/cci-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-9131C (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

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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)		V	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
1.Input voltage/freq. 3 phase, 3 wire	e + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	0~265Vac, 47~ 2~460Vac, 47~ 2~528Vac, 47~ 0~265Vac, 47~	63Hz (Covers 63Hz (Covers	380/400/415\ 380/400/415/4	40/460/480Va	ac)			
2. Maximum Input current at 3. 100% load 3.	-Phase, 200V models: -Phase, 400V models: -Phase, 480V models: -Phase, 200V models:		10A @ 200Va 5.5A @ 380Va 5.5A @ 380Va 16.5A @ 200V	c ic ic								
3.Power Factor (Typ) —	-rnase, 2000 models.		For 3-Phase:	0.94 @ 200/38	30Vac, rated o							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/		0,15	, ,,,		, , , , , , , , , , , , , , , , , , , ,	5015	50.5	2013	50.5
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volt		10	00		100	1.50		
2.Max. Load regulation (*8)				d output volt								
3.Ripple and noise (p-p, 20MHz) (*9	9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	om rated outp	out voltage, fo	llowing 30 mi	nutes warm-u	р.				
6.Temperature stability						-		p. Constant lir		ıp.		
7. Warm-up drift					1	1		wing power o			1	1
8.Remote sense compensation/wire	e (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	······································	mS	30 50	30	30	30	50	50	50	50	50	100
10 Down-prog response time:	ull load (*11) lo load (*12)	mS mS	50 450	50 600	80 800	80 900	80 1100	100 1300	100 2100	100 2000	100 3200	200 3100
11.Transient response time	1010au (~12)	mS	Time for outp	out voltage to	recover withi	n 0.5% of its r	ated output fo	pr a load chang g 100V. 2mS, f	ge 10~90% of	rated output		
12.Start up delay		Sec	Less than 6 Se		5 (1011 1115, 10	r models up t		g 100 v. 21113, 1	or models up	010 1001.		
		V		-	20	40	60	80	100	150	200	600
CONSTANT CURRENT MODE 1.Max. Line regulation (*7)		V	10	20 d output curr	30	40	60	80	100	150	300	600
2.Max. Load regulation (*13)				d output curr d output curr								
3.Ripple r.m.s. @ rated voltage. 3-Ph	nase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Ph		mA	≤1200	≤430	≤300	≤300	≤200	≤100	≤43 ≤60	≤30	≤12 ≤12	≤3
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fi		1	1	inutes warm-u				
			13UV~600V		ma rata di sur			utor we				
6 Temperature stability							lowing 30 mir	nutes warm-up n. Constant lir		nerature		
6.Temperature stability 7. Warm-up drift			0.01% of rate 10V~100V mo	d lout over 8h odel: Less tha	nrs. interval fo n +/-0.25% of	llowing 30 mi rated output o	lowing 30 mir nutes warm-u current over 3	p. Constant lir 0 minutes foll	ne, load & tem owing power			
7. Warm-up drift			0.01% of rate 10V~100V mo 150V~600V: L	d lout over 8h odel: Less tha	nrs. interval fo n +/-0.25% of	llowing 30 mi rated output o	lowing 30 mir nutes warm-u current over 3	p. Constant lir	ne, load & tem owing power			
7. Warm-up drift ANALOG PROGRAMMING AND MO	DNITORING (ISOLATED	 FROM 1	0.01% of rate 10V~100V mo 150V~600V: L THE OUTPUT)	d lout over 8h odel: Less than _ess than +/-0	nrs. interval fo n +/-0.25% of 0.15% of rated	llowing 30 mi rated output o output curren	lowing 30 mir nutes warm-u current over 3 t over 30 min	p. Constant lir 0 minutes foll utes following	ne, load & tem owing power power on.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming	DNITORING (ISOLATED	 9 FROM 1	0.01% of rate 10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5	d lout over 8h odel: Less than Less than +/-0 V or 0~10V, u	nrs. interval fo n +/-0.25% of).15% of rated ser selectable	llowing 30 mi rated output o output curren . Accuracy and	lowing 30 mir nutes warm-u current over 3 t over 30 min l linearity: +/-	p. Constant lir 0 minutes follo utes following 0.15% of rated	ne, load & tem owing power power on. Vout.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming (*15)	DNITORING (ISOLATED	 9 FROM 1 	0.01% of rate 10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	d lout over 8h odel: Less that Less than +/-0 V or 0~10V, u: V or 0~10V, u:	nrs. interval fo n +/-0.25% of 0.15% of rated ser selectable ser selectable	llowing 30 mi rated output o output curren . Accuracy and . Accuracy and	lowing 30 mir nutes warm-u current over 3 t over 30 min d linearity: +/ l linearity: +/	p. Constant lin 0 minutes follo utes following 0.15% of rated 0.4% of rated	ne, load & tem owing power power on. Vout. out.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming	ONITORING (ISOLATED	 9 FROM 1	0.01% of rate 10V~100V mc 150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	d lout over 8h odel: Less that Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full	nrs. interval fo n +/-0.25% of 0.15% of rated ser selectable ser selectable scale, user sel	llowing 30 min rated output o output curren . Accuracy and . Accuracy and ectable. Accu	lowing 30 mir nutes warm-u current over 3 t over 30 min d linearity: +/ l linearity: +/ racy and linea	p. Constant lir 0 minutes follo utes following 0.15% of rated 0.4% of rated rity: +/-0.5% c	ne, load & tem owing power power on. Vout. out. f rated Vout.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming (*15)	DNITORING (ISOLATED	 9 FROM 1 	0.01% of rate 10V~100V mo 150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	d lout over 8ł odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full	nrs. interval fo n +/-0.25% of 1.15% of rated ser selectable ser selectable scale, user sel scale, user sel	llowing 30 mi rated output o output curren . Accuracy and ectable. Accu ectable. Accu	lowing 30 mir nutes warm-u current over 3 t over 30 min d linearity: +/ l linearity: +/ racy and linea	p. Constant lin 0 minutes follo utes following 0.15% of rated 0.4% of rated	ne, load & tem owing power power on. Vout. out. f rated Vout.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming	DNITORING (ISOLATED	 P FROM 1 	0.01% of rate 10V~100V mo 150V~600V: L 150V~600V: L 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	d lout over 8ł odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full W, user select	nrs. interval fo n +/-0.25% of 0.15% of rated ser selectable ser selectable scale, user sel	Ilowing 30 mi rated output c output curren . Accuracy and . Accuracy and ectable. Accu ectable. Accu ectable. Accu	lowing 30 mir nutes warm-u current over 3 t over 30 min d linearity: +/ l linearity: +/ racy and linea	p. Constant lir 0 minutes follo utes following 0.15% of rated 0.4% of rated rity: +/-0.5% c	ne, load & tem owing power power on. Vout. out. f rated Vout.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 5.Output voltage monitor 6.Output current monitor (*15)		 P FROM 1 	0.01% of rate 10V~100V mo 150V~600V: L 150V~600V: L 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	d lout over 8ł odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full W, user select	nrs. interval fo n +/-0.25% of 1.15% of rated ser selectable ser selectable scale, user sel scale, user sel able. Accurac	Ilowing 30 mi rated output c output curren . Accuracy and . Accuracy and ectable. Accu ectable. Accu ectable. Accu	lowing 30 mir nutes warm-u current over 3 t over 30 min d linearity: +/ l linearity: +/ racy and linea	p. Constant lir 0 minutes follo utes following 0.15% of rated 0.4% of rated rity: +/-0.5% c	ne, load & tem owing power power on. Vout. out. f rated Vout.			
7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATI		 P FROM 1 T)	0.01% of rate 10V~100V mc 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	d lout over 8ł odel: Less thai Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full W, user select W, user select	nrs. interval fo n +/-0.25% of 1.15% of rated ser selectable ser selectable scale, user sel scale, user sel able. Accurac	Ilowing 30 mi rated output curren output curren . Accuracy and ectable. Accu ectable. Accu y: +/-0.5%. y: +/-0.5%.	lowing 30 mir nutes warm-u current over 3 t over 30 minu d linearity: +/-i f linearity: +/-i f linearity: +/-i racy and linea racy and linea	p. Constant lir 0 minutes follo utes following 0.15% of rated 0.4% of rated l rity: +/-0.5% c rity: +/-0.5% c	ne, load & tem power on. Vout. out. f rated Vout. f rated lout.	on.	mum Sink Cur	rapt: 10mA
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7. Warm-up drift ANALOG PROGRAMMING AND MO 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATI 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 P FROM 1 T) T) 	0.01% of rate: 10V-100V m 150V-600V: I HE OUTPUT) 0-100%, 0-5 0-100%, 0-5 0-100%, 0-5 0-100%, 0-5 0-5V or 0-10 0-5V or 0-10 Power supply CV/CC Monite Enable/Disat analog progr Enable/Disat	d lout over 8H del: Less than +/-0 V or 0~10V, u: V or 0~10V, u: V or 0~10V, u: V or 0~10V, u: V ot 0~10V, u: V v, user select V, u: V, user select V, u: V, user select V, u: V u: V u: V u: V u: V u: V u: V u: V	hrs. interval fo n +/-0.25% of h.15% of rated ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open col sctor. CC mode ogramming co ol monitor sig by electrical s	llowing 30 mi rated output curren output curren Accuracy and Accuracy and ectable. Accu ectable. Acc	lowing 30 mir nutes warm-u- current over 31 t over 30 mini 1 linearity: +/- 1 linearity: +/- 1 linearity: +/- 1 linearity: +/- 1 carcy and linearity: +/- racy and linearity: +/- fical signal or rector. Remote: intact. 0~0.6V	p. Constant lir 0 minutes follouing 0.15% of rated 0.4% of rated 1 rifty: +/-0.5% c rifty: +/-0.5% c ut Off: Off. Ma Jun Voltage: 30 dry contact. R On. Local: Off.	ne, load & tem wing power power on. Vout. out. f rated Vout. f rated Vout. f rated Vout. f rated lout. wimum Volta V/, Maximum emote: 0~0.6 Maximum Vo V or open. U:	ge: 30V, Maxir Sink Current: V or short. Loo Itage: 30V, Ma ser selectable	10mA. cal: 2~30V or c ximum Sink Cu	open.
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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
					~265Vac, 47~					1.50	500	000
1.Input voltage/freq. 3 phase, 3 wire			3-Phase, 400 3-Phase, 480 1-Phase, 200	V models: 342 V models: 342 V models: 170	~460Vac, 47~ ~528Vac, 47~ ~265Vac, 47~	63Hz (Covers 63Hz (Covers 3	380/400/415\ 380/400/415/4	40/460/480Va	ac)			
2. Maximum Input current at 100% load 3-F	Phase, 200V models: Phase, 400V models: Phase, 480V models:		12.5A @ 200V 6.5A @ 380Va 6.5A @ 380Va	IC IC								
	hase, 200V models:		21A @ 200Va For 3-Phase		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 50/	Ą								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volta	age							
2.Max. Load regulation (*8)				d output volta	•							
3.Ripple and noise (p-p, 20MHz) (*9)		mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	om rated outp	ut voltage, fol	lowing 30 mir	nutes warm-u	p.				
6.Temperature stability					nrs interval fo					ıp.		
7. Warm-up drift					utput voltage							
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	load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time		mS			recover withi than 1mS, fo					rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 Se	ec				-				
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr		10				1.50		
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
· · · · ·	50 (11)				om rated out					_ 10		
5.Temperature coefficient		PPM/°C			m rated outp							
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fo	lowing 30 mir	nutes warm-u	p. Constant lir	ne, load & tem	perature.		
7. Warm-up drift					n +/-0.25% of					on.		
			150V~600V: l	ess than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MON	ITORING (ISOLATED	FROM 1	THE OUTPUT)									
1.Vout voltage programming			0~100%, 0~5	V or 0~10V, u	er selectable.	Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15)			0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	l linearity: +/-	0.4% of rated I	out.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accui	acy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15)			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accui	acy and linea	rity: +/-0.5% c	of 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 (ISOLATE	D FROM THE OUTPU	T)										
1. Power supply OK #1 signal	DIROWINE CON C		Power supply	/ output mon	tor Open coll	ector Output	On On Outr	ut Off Off Ma	vimum Volta	ge: 30V, Maxin	um Sink Curr	ent·10mA
2. CV/CC signal			,		•					Sink Current:		cite rolline.
3. LOCAL/REMOTE Analog control								-		V or short. Loc		
4. LOCAL/REMOTE Analog signal								,			al: 2~30V or o	pen.
5. ENABLE/DISABLE signal							ctor. Remote:	On. Local: Off.	Maximum Vo	Itage: 30V. Max	al: 2~30V or o kimum Sink Cu	
STELL OF OUR SIGNAL						nal. Open colle					kimum Sink Cu	
			Enable/Disab	le PS output		nal. Open colle gnal or dry co	ntact. 0~0.6V	or short, 2~30)V or open. U	ser selectable	kimum Sink Cu	
6. INTERLOCK (ILC) control			Enable/Disat Enable/Disat Two open dra	ole PS output ole PS output ain programm	oy electrical si oy electrical si able signals. I	nal. Open colle gnal or dry co gnal or dry co Maximum volt	ntact. 0~0.6V ntact. Remot age 25V, Max	or short, 2~30 e: 0~0.6V or sh imum sink cur	0V or open. U hort. Local: 2~ rrent 100mA (ser selectable 30V or open. Shunted by 27	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
6. INTERLOCK (ILC) control 7. Programmed signals			Enable/Disab Enable/Disab Two open dra Maximum le	ble PS output ble PS output ain programm ow level inpu	by electrical si by electrical si able signals. I at voltage =	nal. Open colle gnal or dry co gnal or dry co Maximum volt 0.8V.Minimu	ntact. 0~0.6V ntact. Remot age 25V, Max m high level	or short, 2~30 e: 0~0.6V or sh imum sink cur input voltac	OV or open. Us nort. Local: 2~ rrent 100mA (ae = 2.5V, Ma	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		 	Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge	ole PS output ole PS output ain programm ow level inpu r: tw=10us n	by electrical si by electrical si able signals. I at voltage = hinimum. Tr,	nal. Open colle gnal or dry co gnal or dry co Maximum volt D.8V,Minimu If=1us Maxin	ntact. 0~0.6V ntact. Remot age 25V, Max m high level	or short, 2~30 e: 0~0.6V or sh imum sink cur input voltac	OV or open. Us nort. Local: 2~ rrent 100mA (ae = 2.5V, Ma	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		 	Enable/Disab Enable/Disab Two open dra Maximum k edge trigge By electrical	ole PS output ole PS output ain programm ow level inpu r: tw=10us n Voltage: 0~0.6	by electrical si by electrical si hable signals. I nt voltage = ninimum. Tr, 5V/2~30V or d	nal. Open colle gnal or dry co gnal or dry co Maximum volt D.8V,Minimu If=1us Maxin	ntact. 0~0.6V ntact. Remot age 25V, Max m high level	or short, 2~30 e: 0~0.6V or sh imum sink cur input voltac	OV or open. Us nort. Local: 2~ rrent 100mA (ae = 2.5V, Ma	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum k edge trigge By electrical	ole PS output ole PS output ain programm ow level inpu r: tw=10us n Voltage: 0~0.6	by electrical si by electrical si able signals. I at voltage = hinimum. Tr,	nal. Open colle gnal or dry co gnal or dry co Maximum volt D.8V,Minimu If=1us Maxin	ntact. 0~0.6V ntact. Remot age 25V, Max m high level	or short, 2~30 e: 0~0.6V or sh imum sink cur input voltac	OV or open. Us nort. Local: 2~ rrent 100mA (ae = 2.5V, Ma	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V	ble PS output ble PS output ain programm bw level inpu r: tw=10us n Voltage: 0~0.6 ((500ohm imp	by electrical si by electrical si lable signals. I it voltage = ninimum. Tr, 5V/2~30V or d bedance)=Fail	nal. Open colle gnal or dry co gnal or dry co Aaximum volt D.8V,Minimu ff=1us Maxin ry contact.	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de	or short, 2~3(e: 0~0.6V or sh imum sink cur input volta <u>c</u> lay between	0V or open. U: nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V Possible. Up	ble PS output l ble PS output l ain programm bow level inpu r: tw=10us n Voltage: 0~0.0 / (500ohm imp co 4 identical	oy electrical si able signals. I it voltage = ninimum. Tr; SV/2~30V or d oedance)=Fail	nal. Open colle gnal or dry co gnal or dry co Maximum volt D.8V,Minimu If=1us Maxim ry contact.	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de Refer to instr	or short, 2~3(e: 0~0.6V or sh imum sink cur input volta <u>c</u> lay between	0V or open. U: nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V Possible. Up Possible. Two	ble PS output l ble PS output l ain programm bw level inpu r: tw=10us n Voltage: 0~0.0 ((500ohm imp to 4 identical uni	by electrical si by electrical si able signals. I ut voltage = hinimum. Tr, 5V/2~30V or d bedance)=Fail units in Maste ts. Refer to ins	nal. Open colle gnal or dry co gnal or dry co Maximum volt D.8V,Minimu If=1us Maxin ry contact.	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de Refer to instr Jal.	or short, 2~3(e: 0~0.6V or sh imum sink cur input volta <u>c</u> lay between uction manua	DV or open. U: nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m l.	ser selectable 30V or open. Shunted by 27 aximum high	kimum Sink Cu logic. 'V zener)	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge By electrical 4~5V=OK, 0V Possible. Up Possible. Two Power suppli	ble PS output l ble PS output l ain programm bw level inpu r: tw=10us n Voltage: 0~0.0 ((500ohm imp to 4 identical uni es can be con	y electrical si y electrical si able signals. I ut voltage = ninimum. Tr, SV/2~30V or d pedance)=Fail units in Maste ts. Refer to ins nected in Dai	nal. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu f=1us Maxin ry contact. r/Slave mode. truction manu sy chain to syr	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de Refer to instr ual. nchronize the	or short, 2~3(e: 0~0.6V or sh imum sink cur input volta <u>c</u> lay between uction manua r turn-on and	DV or open. U: nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m L. turn-off.	ser selectable 30V or open. Shunted by 27 aximum high is.	kimum Sink Cu logic. V zener) level input =	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical 4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou	ble PS output ble PS output ain programm pw level inpur: tw=10us n Voltage: 0~0.0 Voltage: 0~0.0 Voltage: 0~0.0 to 4 identical uni es can be con tput power to	by electrical si by electrical si able signals. I at voltage = ininimum. Tr; 5V/2~30V or d bedance)=Fail units in Maste ts. Refer to ins nected in Dai	hal. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu f=1us Maxin f=1us Maxin ry contact. r/Slave mode. truction manu ry chain to syr ned value. Pro	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de Refer to instr Jal. cchronize thei gramming via	or short, 2~3(e: 0~0.6V or sh imum sink cur input voltag lay between uction manua r turn-on and a the commun	DV or open. Us nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m l. turn-off. ication ports	ser selectable 30V or open. Shunted by 27 aximum high is. or the front pa	kimum Sink Cu logic. V zener) level input =	irrent: 10mA.
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		 	Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates ser	ble PS output ble PS output ain programm pw level inpur: tw=10us n Voltage: 0~0.0 f (5000hm imp to 4 identical uni es can be con tput power to ies resistance.	by electrical si by electrical si lable signals. I at voltage = ininimum. Tr; SV/2~30V or d bedance)=Fail units in Maste ts. Refer to ins nected in Dai: a proggram Resistance ra	hal. Open colle gnal or dry co gnal or dry co daximum vollt S.8V,Minimu ff=1us Maxin ry contact. r/Slave mode. truction manu cy chain to syr ned value. Pro nge: 1~1000n	ntact. 0~0.6V ntact. Remot age 25V, Max m high level num, Min de Refer to instr Jal. achronize the gramming vi. nΩ. Programm	or short, 2~3(e: 0~0.6V or sh imum sink cur input voltag lay between uction manua r turn-on and a the commun ning via the cc	DV or open. Us nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m I. turn-off. ication ports pommunication	ser selectable 30V or open. Shunted by 27 aximum high is. or the front pp n ports or the f	kimum Sink Cu logic. V zener) level input = nel. iront panel.	= 5V positive
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		 	Enable/Disab Enable/Disab Two open dri. Maximum ke dge trigge By electrical ' 4~5V=OK, OV Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmab	ble PS output ble PS output ble PS output ble PS output ble PS output ble PS output sin programmer voltage: 0~0.0 (5000hm imp to 4 identical voltage i dentical voltage s can be con tput power to ble Output rise ble Output rise on ports or th	by electrical si by ele	hal. Open colle gnal or dry co daximum volto. SeV.Minimur ff=1us Maxim ry contact. r/Slave mode. truction man. truction man. ty chain to syr eed value. Pro onge: 1–1000n gal slew rate. F.	ntact. 0~0.6V ntact. Remot rage 25V, Max m high level num, Min de Refer to instr Jal. chronize the gramming via nΩ. Programming	or short, 2~30 e: 0~0.6V or sh imum sink cuu input voltag lay between uction manua r turn-on and a the commun ning via the cc range: 0.0001	DV or open. U: hort. Local: 2~ rent 100mA (je = 2.5V, Ma 2 pulses 1m I. turn-off. ication ports mmunicatior ~999.99 V/mS	ser selectable 30V or open. Shunted by 27 aximum high is. or the front pa n ports or the f isec. or A/mSec	dimum Sink Cu logic. V zener) Ievel input = anel. Programmin.	g via the
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		 	Enable/Disab Enable/Disab Two open dri. Maximum ke dge trigge By electrical ' 4~5V=OK, OV Possible. Up Possible. Two Power suppli Limits the ou Emulates ser Programmab	ble PS output ble PS output ble PS output ble PS output ble PS output ble PS output sin programmer voltage: 0~0.0 (5000hm imp to 4 identical voltage i dentical voltage s can be con tput power to ble Output rise ble Output rise on ports or th	by electrical si by ele	hal. Open colle gnal or dry co daximum volto. SeV.Minimur ff=1us Maxim ry contact. r/Slave mode. truction man. truction man. ty chain to syr eed value. Pro onge: 1–1000n gal slew rate. F.	ntact. 0~0.6V ntact. Remot rage 25V, Max m high level num, Min de Refer to instr Jal. chronize the gramming via nΩ. Programming	or short, 2~30 e: 0~0.6V or sh imum sink cuu input voltag lay between uction manua r turn-on and a the commun ning via the cc range: 0.0001	DV or open. U: hort. Local: 2~ rent 100mA (je = 2.5V, Ma 2 pulses 1m I. turn-off. ication ports mmunicatior ~999.99 V/mS	ser selectable 30V or open. Shunted by 27 aximum high is. or the front pp n ports or the f	dimum Sink Cu logic. V zener) Ievel input = anel. Programmin.	g via the
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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	(USB, LAN, 0) Interfaces)	 V	Enable/Disat Enable/Disat Two open dr Maximum la edge trigge By electrical ' 4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou Enulates ser Programmat communicat Profiles of up 10	ble PS output l ble PS output l voltage: 0-0.0 (5000hm imp to 4 identical voltage: 0-0.0 (5000hm imp to 4 identical voltage: 0-0.0 ble Output rises resistance. ble Output rises of to 100 steps voltage: 0-0.0 20	by electrical si by electrical si vable signals. It voltage = ininimum. Tr; iv/2-30V or d bedance)=Fail units in Maste ts. Refer to ins nected in Daia ta proggram Resistance ra and Output fi le front panel can be stored 30	hal. Open colle gnal or dry co gnal or dry co gnal or dry co gnal or dry co gnal or dry co source (False Maxim y contact. //Slave mode. truction man y chain to syr end value. Pro nge: 1-1000 all slew rate. F in 4 memory of	ntact. 0~0.6V ntact. Remoti age 25V, Max m high level, Max num, Min de Refer to instri Jal. Refer to instri Stri Refer to instri Refer to instri Refer to instri Stri Refer to instri Refer to instri	or short, 2–3(c: O–.0KV or sł imum sink cuu input voltag lay between uction manua r turn-on and a the commun ning via the cc range: 0.0001 n by comman	DV or open. U: nort. Local: 2 rrent 100mA (g = 2.5V, Mark 2 pulses 1m I. turn-off. ication ports mmunication -999.99 V/mS id via the com	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	<pre>dimum Sink Cu logic. V zener) V zener v z</pre>	g via the front panel.
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 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)(** 1.Vout programming accuracy (*16)	(USB, LAN, 0) Interfaces)	 	Enable/Disat Enable/Disat Enable/Disat Maximum In Maximum In edge trigge By electrical " Possible. Up ' Possible. Up ' Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up 10 0.05% of rate	ble PS output l ble PS output l ain programm wo level input r: tw=10us n Voltage: 0~0.0 (5000hm imp to 4 identical uni es can be con tput power tr ies resistance. le Output rise to 100 steps 20 d output volt	by electrical si by electrical si by electrical si bable signals. La two ltage = ninimum. Tr; V/2-30V or d becance)=Fail units in Maste ts. Refer to ins nected in Dai: a proggram Resistance ra and Output te efront panel can be stored 30 age	hal. Open colle gnal or dry co gnal or dry co Aaximum volt .8.V, Minimuu (f=1us Maxin (f=1us Maxin (f=1us Maxin (f) Slave mode. truction man (ry chain to syr red value. Pro nge: 1~1000n all slew rate. Fi in 4 memory of 40	ntact. 0~0.6V ntact. Remoti age 25V, Max m high level, Max num, Min de Refer to instr Ial. inchronize thei gramming vi. nΩ. Programm rogramming regls. Activatic 60	or short, 2–3(c: O–.0KV or sł imum sink cuu input voltag lay between uction manua r turn-on and a the commun ning via the cc range: 0.0001 n by comman	DV or open. U: nort. Local: 2 rrent 100mA (g = 2.5V, Marcel g = 2.5V, Marcel g = 2.5V, Marcel g = 2.5V, Marcel g = 2.5V, Marcel uturn-off. ication ports mmunication -999.99 V/mS id via the com	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	<pre>dimum Sink Cu logic. V zener) V zener v z</pre>	g via the front panel.
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GENESYS[™] 5kW SERIES SPECIFICATIONS

										1				1	-	1.
OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1) 2.Rated output current (*2)		V A	10 500 (*3)	20 250	30 170	40	50 100	60 85	80 65	100 50	150 34	200 25	300 17	400	500	600 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
INTOTCHARACTERISTICS		v			lels: 170~2		-			100	150	200	500	400	500	000
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase,	400V moo	dels: 342~4	60Vac, 47	7~63Hz (C	overs 380	/400/415\							
	2 Dhara 200V madala		3-Phase, 480V models: 342~528Vac, 47~63Hz (Covers 380/400/415/440/460/480Vac) 17.5A @ 200Vac													
2. Maximum Input current at	3-Phase, 200V models: 3-Phase, 400V models:		9.2A @ 380Vac													
100% load	3-Phase, 480V models:		9.2A @ 38													
3.Power Factor (Typ)			0.94 @ 200/380Vac, rated output power.													
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	89 (*21) 91 91 91 90 91 91 91 91 91 92 92 92 Less than 50A											92	
5.Inrush current (*6)		A														
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out voltag											
2.Max. Load regulation (*8)	(*0)				out voltag		75	75	00	00	120	200	200	400	450	400
3.Ripple and noise (p-p, 20MHz) (4.Ripple r.m.s. 5Hz~1MHz (*9)	(*9)	mV mV	75 8	75 10	75	75	75 12	75 12	80 15	90 15	120 20	200 45	200 60	400 80	450 80	480
5.Temperature coefficient		mv PPM/°C			ed output		L				20	45	60	80	80	100
6.Temperature stability										ip. Ip. Constai	nt line loa	d & temp				
7. Warm-up drift										wing pow		d d temp				
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
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS								or a load cl				ut current.	Output s	et-point:
					nse. Less t	nan 1mS, i	tor model	s up to an	a ıncludin	ig 100V. 2n	nS, for mo	dels abov	re 100V.			
12.Start up delay		Sec	Less than	5 Sec												
CONSTANT CURRENT MODE		۷	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put curren											
2.Max. Load regulation (*13)				· · · · · · · · · · · · · · · · · · ·	put curren		100									
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*14)	mA	≤1200 10V~100		≤300	≤150	≤130	≤100	≤70	≤45 inutes wai	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C								nutes war						
6.Temperature stability												d & temp	erature			
			0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature. 10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on.													
7. Warm-up drift										utes follov						
ANALOG PROGRAMMING AND N		EDOM T					•				51					
1.Vout voltage programming	NONTOKING (ISOLATED		T		~10\/	selectab	le Accura	cy and lin	oaritv:⊥/-	0.15% of ra	ated Vout					
2.lout voltage programming (*15			-				ic. /iccuiu									
	5)		0~100%	0~5V or 0	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.											
	5)							-				d Vout.		_		
3.Vout resistor programming 4.lout resistor programming (*15			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable	. Accuracy	and linea		5% of rate					
3.Vout resistor programming			0~100%, 0~100%,	0~5/10Ko 0~5/10Ko	hm full sc	ale, user s ale, user s	electable electable	Accuracy Accuracy	and linea and linea	rity: +/-0.5	5% of rate					
3.Vout resistor programming 4.lout resistor programming (*15			0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko)~10V, use	hm full sc hm full sc	ale, user s ale, user s le. Accura	electable electable acy: +/-0.5	Accuracy Accuracy 6 of rated	and linea and linea I Vout.	rity: +/-0.5	5% of rate					
3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15))	 	0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko)~10V, use	hm full sc hm full sc r selectab	ale, user s ale, user s le. Accura	electable electable acy: +/-0.5	Accuracy Accuracy 6 of rated	and linea and linea I Vout.	rity: +/-0.5	5% of rate					
3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA)	 	0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko 0~5/10Ko)~10V, use)~10V, use	hm full sc hm full sc er selectab er selectab	ale, user s ale, user s le. Accura le. Accura	electable electable acy: +/-0.5 acy: +/-0.5	Accuracy Accuracy % of rated % of rated	and linea and linea Vout. I lout.	rity: +/-0.5 rity: +/-0.5	5% of rate 5% of rate	d lout.	:: 30V, Max	kimum Sin	k Current	: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15))	 [)	0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5/10Ka 0~5/10Ka 0~10V, use 0~10V, use pply outp	hm full sc hm full sc er selectab er selectab ut monito	ale, user s ale, user s le. Accura le. Accura r. Open co	electable electable acy: +/-0.5 acy: +/-0.5	Accuracy Accuracy % of ratec % of ratec	and linea and linea I Vout. I lout.	rity: +/-0.5	5% of rate 5% of rate 5. Maximu	d lout. m Voltage			k Current	: 10mA.
3.Vout resistor programming 4.Iout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal) ATED FROM THE OUTPUT	 T) 	0~100%, 0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Me	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp pply outp	hm full sc hm full sc er selectab er selectab ut monito en collect	ale, user s ale, user s le. Accura le. Accura r. Open co pr. CC mo	electable electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C\	Accuracy Accuracy % of rated % of rated 0 of rated 0 utput On: / mode: O	and linea and linea l Vout. l lout. cOn. Outp ff. Maxim	rity: +/-0.5 rity: +/-0.5 out Off: Off	5% of rate 5% of rate 5% Maximu e: 30V, Ma	d lout. m Voltage ximum Si	nk Curren	t: 10mA.		
3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal) ATED FROM THE OUTPUT	 T) 	0~100%, 0~100%, 0~5V or C 0~5V or C Power su CV/CC Ma Enable/D	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp ponitor. Op	hm full sc hm full sc er selectab er selectab out monito en collect alog progr	ale, user s ale, user s le. Accura le. Accura r. Open co pr. CC mo amming o	electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C\ control by	Accuracy Accuracy of rated of rated of rated Accuracy of rated and of rated Accuracy of rated accuracy	and linea and linea I Vout. I lout. On. Outp ff. Maximu signal or	rity: +/-0.5 rity: +/-0.5 out Off: Off um Voltag	5% of rates 5% of rates 5% Maximu e: 30V, Ma ct. Remote	d lout. m Voltage ximum Si e: 0~0.6V d	nk Curren or short. L	t: 10mA. ocal: 2~30	IV or oper	1.
3.Vout resistor programming 4.Iout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro) ATED FROM THE OUTPUT	 T) 	0~100%, 0~100%, 0~5V or (0~5V or (0~5V or (Power su CV/CC Me Enable/D analog pr	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use 0~10V, use pply outp pnitor. Op visable and ogrammin	hm full sc hm full sc er selectab er selectab ut monito en collect alog progr ng control	ale, user s ale, user s le. Accura le. Accura r. Open co pr. CC mo amming o monitor s	electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C control by ignal. Ope	Accuracy Accuracy of rated of rated of rated node: O electrical n collecto	and linea and linea l Vout. l lout. c On. Outp ff. Maxim signal or r. Remote:	rity: +/-0.5 rity: +/-0.5 out Off: Off um Voltag dry contac	5% of rates 5% of rates 5% Maximum e: 30V, Ma ct. Remote Off. Maxim	d lout. m Voltage ximum Sin e: 0~0.6V (num Volta	nk Curren or short. L age: 30V, N	t: 10mA. ocal: 2~30 1aximum S	IV or oper	1.
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GENESYS[™] 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		۷	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection							ly changes cycle in aut									
2.Over-voltage protection (OVP)							recycle in									
3.Over -voltage programming rar	ige	٧					5-55.125	5~66.15	5~88.2	5~110.25	5~165.37	7 5~220.5	5~330.75	5~441	5~551.25	5~661.
Over-voltage programming acc				ated outp												
5.Output under voltage limit (UVI	_)						imit. Does ı		n analog j	orogramm	ing. Prese	et by front	panel or c	ommunica	ation port.	
6.Over temperature protection							y by autost	art mode.								
7. Output under voltage limit (UV	L)			adjustme												
8. Output under voltage protection	on (UVP)		Prevents mode, by	adjustmer Power Sw	nt of Vout /itch, by C	below lir OUTPUT b	mit. P.S out outton, by r	put turns (ear panel (Off during or by com	under vol municatio	tage cond 1.	dition. Res	et by AC ir	put recyc	le in autos	tart
FRONT PANEL																
1.Control functions			Multiple	options wi	ith 2 Enco	ders										
				/Power Li												
				/UVP man												
							Foldback, (
							n of LAN,IEE	E,RS232,R	S485,USB	or Optiona	al commu	nication ir	nterface.			
				N/OFF. Fro			(0 10		10 1		e 1					
							of Baud Ra Voltage/re									
							of Voltage				K/TUK pro	ogrammin	g			
2.Display							d output vo			J 3 V/ 10 V.						
2.015pilly							output curi									
3.Front Panel Buttons Indications										N,CONFIGI	JRATION,	SYSTEM, S	SEQUENCE	R.		
4. Front Panel Display Indications	OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION,CONFIGURATION, SYSTEM, SEQUENCER. 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		%		RH (no cor	ndensatio	n).										
4.Storage humidity		%														
5.Altitude (*17)			Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m)													
			Toperating	9. 1000010	(5000111),	output ci		ung 270/10			C/1001110	10010 200		peruting.	1000011 (12	
MECHANICAL																
1.Cooling					-		r flow direc	tion: from				rear				
2.Weight		kg	2.7kW/3.4	kW - Less	than 6.25	ōkg.			5kW - Le	ess than 7.5	ikg.					
3.Dimensions (WxHxD)		mm	W: 423, I	H: 43.6, D	D: 553.2 (Includin	busbars a g busbars	and bus	bars cove	r) (Refer t	o Outline	e drawing	g).			
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-	1, CSA22.2	2 No.6101	0-1, IEC61	010-1, EN6	1010-1.								
1.1. Interface classification			Vout≤50\ 60≤Vout≤	/ Models: 0 600V Mo	Output, J dels: Outp	1, J2, J3, J4 out & J8 (9	4, J5, J6, J7, sense) are h	J8 (sense) azardous	& J9 (com J1, J2, J3,	municatio J4, J5, J6, J	n options) 7 & J9 (cor) are Non I mmunicat	lazardous	is) are Nor	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 Non H Vouts50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC Input - Ground: 2835VDC 1min. 60√Vvouts100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 00vsVouts100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 422VDC 00vtput & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. 00vtvvouts600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 00vtvvt & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 00vtput & J8 (sense) - Ground: 1500VDC 1min. 100v <vouts600v &="" (communication="" input="" j4,="" j5,="" j6,="" j7="" j8,="" j9="" models:="" options):<="" output="" td="" –=""> 0utput & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 0utput & J8 (sense) - Ground: 2500VDC 1min. Input - Ground: 2850VDC 1min. Input - Ground: 2850VDC 1min.</vouts600v>										VDC 1min, : 4242VDC 1min,			
1.3 Insulation resistance			100Mohn	n at 25°C,	70%RH. C	Output to	Ground 5	DOVDC								
2.Conducted emmision			IEC/EN61	204-3 Indu	ustrial env	/ironmen	it, Annex H	table H.1 ,	FCC Part	15-A, VCCI-	A.					
3.Radiated emission			IEC/EN61	204-3 Indu	ustrial env	/ironmen	it, Annex H	table H.3	and H4, F	CC Part 15-	A, VCCI-A					
	EMC(*18)			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[™] GSP10kW SERIES SPECIFICATIONS

OUTPUT RATING 1.Rated output voltage(*1) 2.Rated output current (*2) 3.Rated output power INPUT CHARACTERISTICS	GSP	1 10 1000	20 500	20.240	40.250	50.200	60.170	00.120	100 100	150.00	200 50	200.24	400.20	500.20	600 17
2.Rated output current (*2) 3.Rated output power	V	10-1000	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
3.Rated output power	A	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
	kW	1000 (3)	10	10.2	10	10	10.2	10.4	100	10.2	10	10.2	10.4	10	10.2
	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
	v		200V mod						100	150	200	500	400	500	600
1.Input voltage/freg. 3 phase, 3 wire + Ground (*4)			400V moc						ac)						
impactorage, requisiplicate, since i cloand (i)		L							40/460/48	OVac)					
3-Phase, 200V models	:	35A @ 20			,					,					
2. Maximum Input current at 100% load 3-Phase, 400V model:		18.4A @ 3													
3-Phase, 480V models	:	18.4A @ 3	380Vac												
3.Power Factor (Typ)		0.94 @ 20	0.94 @ 200/380Vac, rated output 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)	A	Less than	100A												
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of	rated outp	out voltag	e										
2.Max. Load regulation (*8)		0.01% of	rated outp	out voltag	e +5mV										
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C		C from rat												
6.Temperature stability									p. Constant		d & temp.				
7. Warm-up drift 8. Remote concernencation (wire (*10)	 V		1	· · ·		1	1	1	ving powe		F	F	5	F	5
8.Remote sense compensation/wire (*10) 9.Up-prog. Response time (*11)	mS	2 30	2 30	5 30	5 30	5 50	5 50	5	5 50	5 50	5 50	5 50	5	5 100	100
Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time: No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
									r a load ch						
11.Transient response time	mS	10~100%	, Local ser						g 100V. 2m						
12.Start up delay	Sec	Less than	7 Sec												
CONSTANT CURRENT MODE															
1.Max. Line regulation (*7)		0.05% of	rated out	out curren	t.										
2.Max. Load regulation (*13)			rated out												
3.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*14) mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C		1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
	DDM/9C	10V~100\	V 100PF	PM/°C fror	n rated ou	itput curre	ent, follow	ving 30 mi	nutes warr	n-up.					
5.Temperature coefficient	PPM/°C	150V~60	OV 70PPI	M/⁰C from	rated out	put currer	nt, followi	ng 30 min	utes warm	-up.					
6.Temperature stability		0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.													
7. Warm-up drift		-) minutes f						
		150V~60	0V: Less th	an +/-0.15	5% of rated	d output c	urrent ov	er 30 minu	ites followi	ng powe	r on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPI	UT)												
1.Vout voltage programming		0~100%,	0~5V or 0	~10V, user	selectabl	e. Accurad	y and line	earity: +/-0).15% of rat	ed Vout.					
2.lout voltage programming (*15)		 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 													
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.													
4.lout resistor programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.													
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.													
6.Output current monitor (*15)		0~5V or 0)~10V, use	r selectab	le. Accura	cy: +/-0.5	%. Of rate	d lout.							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	JT)														
1. Power supply OK #1 signal		Power su	pply outp	ut monito	r. Open co	ollector. O	utput On:	On. Outp	ut Off: Off.	Maximun	n Voltage:	30V, Maxi	mum Sink	Current: 1	0mA.
2. CV/CC signal									m Voltage						
3. LOCAL/REMOTE Analog control									dry contact						
4. LOCAL/REMOTE Analog signal				-					On. Local:			-		ink Curren	it: 10mA.
5. ENABLE/DISABLE signal									or short, 2				logic.		
6. INTERLOCK (ILC) control									e: 0~0.6V o mum sink				7)/ ====``		
7. Programmed signals				<u> </u>										-51/2	nositi
8. TRIGGER IN / TRIGGER OUT signals		edge tri	gger: tw=	=10us mir	vonage = nimum. T	r,Tf=1us N	Maximun h	n, Min de	input vol lay betwe	en 2 puls	ses 1ms.	num nigi	rieverin	Juι = 5V β	JUSICIVE
9. DAISY_IN/SO control signal			ical Voltag												
10. DAISY_OUT/PS_OK #2 signal			<, 0V (500d												
FUNCTIONS AND FEATURES															
1. Parallel operation		Possible	Up to face	r (1) idant	cal CSD	nite Ecore	ore power	r please -	onsult with	Factory					
			up to rou vith Facto		Cai USP Ul	IILS. FOR M	ore home	i piease co	mount with	raciory.					
· · · · · · · · · · · · · · · · · · ·				/	cted in D	aisy chain	to synchr	onize thei	r turn-on a	nd turn-o	ff.				
2. Series operation									the comm			the front r	anel.		
2. Series operation 3. Daisy chain	-								ning via the					el.	
2. Series operation 3. Daisy chain 4. Constant power control		Programi	mable Out	tput rise a	nd Outpu	t fall slew			range: 0.00						the
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			ication po	rts or the	front pane	el.									
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control				O stops ca	n be store	d in 4 mer	nory cells	. Activatio	n by comm	nand via t	h				panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			of up to 10	u steps ca							ne commu	inication	ports or by	the front	
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,		Profiles o				50	60	00	100				1		1
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)	 V	Profiles o	20	30	40	50	60	80	100	150	200	anication p	400	500	600
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16)	 V	Profiles o 10 0.05% of	20 rated out	30 out voltag	40	50	60	80	100				1		1
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 accuracy (*15)	V	Profiles o 10 0.05% of 0.3% of ra	20 rated outp	30 out voltag	40	50	60	80	100				1		1
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. Jout programming accuracy (*15) 3.Vout programming resolution	V 	Profiles o 10 0.05% of 0.3% of ra 0.002% o	20 rated outp ated outp f rated ou	30 out voltag ut current tput volta	40 e ge	50	60	80	100				1		1
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.Jout programming resolution	V V 	Profiles o 10 0.05% of 0.3% of ra 0.002% o 0.002% o	20 rated outp ated outp f rated ou f rated ou	30 put voltag ut current tput volta tput curre	e ge nt	50	60	80	100				1		1
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 3.Vout programming resolution 5.Vout readback accuracy	V V 	Profiles o 10 0.05% of 0.3% of ra 0.002% o 0.002% o 0.05% of	20 rated outp ated outp f rated ou f rated ou rated out	30 Dut voltag ut current tput volta tput curre put voltag	e ge nt	50	60	80	100				1		1
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.Jout programming resolution	V V 	Profiles o 10 0.05% of 0.3% of ra 0.002% o 0.002% o 0.05% of	20 rated outp ated outp f rated ou f rated ou	30 Dut voltag ut current tput volta tput curre put voltag	e ge nt	50	60	80	0.011%				1		1

GENESYS[™] GSP15kW SERIES SPECIFICATIONS

	CCD	10 1500	20.750	20 510	40.275	50 200	60.255	00.105	100 150	150 100	200.75	200 51	400.20	500.20	600.25.5
OUTPUT RATING 1.Rated output voltage(*1)	GSP V	10-1500 10	20-750 20	30-510 30	40-375 40	50-300 50	60-255 60	80-195 80	100-150 100	150-102 150	200-75 200	300-51 300	400-39	500-30 500	600-25.5 600
2.Rated output current (*2)	A	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	150	15.3	15	15.3	15.6	15	15.3
	v	10	20	30	40	50	60	80	100	150	200	300	400	500	1
		3-Phase, 2	00V mode	els: 170~26	5Vac, 47~	63Hz (Co	vers 200/2	30Vac)		150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 3-Phase, 200V models:		3-Phase, 4 3-Phase, 4 52.5A @ 20	80V mode							0Vac)	-			-	
2. Maximum Input current at 100% Ioad 3-Phase, 400V models: 3-Phase, 400V models: 3-Phase, 480V models:		27.6A @ 380Vac 27.6A @ 380Vac													
3.Power Factor (Typ)		0.94 @ 200).94 @ 200/380Vac, rated output power.												
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)	89 (*21) 90 91 91 91 91 91 91 91 91 91 92 92 91 9 ess than 150A												92
5.Inrush current (*6)	A		150A												
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of ra	ated outp	ut voltage											
2.Max. Load regulation (*8)		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	PPM/°C	50PPM/°C									10.				
6.Temperature stability		0.01% of ra				-					1 & temp.				
7. Warm-up drift 8. Remote concernencation (wire (*10))	 V	Less than 2		5	ut voltage	5	5	5	5	f on.	5	5	5	5	5
8.Remote sense compensation/wire (*10) 9.Up-prog. Response time (*11)	mS	30	2	30	30	50	50	50	50	50	50	50	100	100	100
Eull load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time: No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
		Time for o	utput vol	tage to red	over with	in 0.5% of	fits rated	output for	r a load ch	ange 10~	90% of rat	ed output			
11.Transient response time	mS	10~100%,	Local sen	se. Less th	an 1mS, fo	or models	up to and	including	100V. 2m	S, for moo	dels above	100V.			·
12Start up delay	Sec	Less than 7	7 Sec												
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.05% of ra													
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	100PP	M/ºC from	rated ou	tput curre	nt, follow	ing 30 mir	nutes warr	m-up.					
	PPINI/ C	150V~600	V 70PPN	1/°C from	ated outp	out curren	t, followir	ng 30 minu	utes warm	-up.					
6.Temperature stability		0.01% of ra										rature.			
7. Warm-up drift		10V~100V													
		150V~600	V: Less the	an +/-0.159	6 of rated	output ci	urrent ove	r 30 minu	tes follow	ing powei	on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPU	T)												
1.Vout voltage programming		0~100%, 0	~5V or 0~	10V, user	electable	e. Accurac	y and line	arity: +/-0	.15% of rat	ted Vout.					
2.lout voltage programming (*15)		0~100%, 0	~5V or 0~	-10V, user	selectable	e. Accurac	y and line	arity: +/-0	.4% of rate	ed lout.					
3.Vout resistor programming		0~100%, 0	~5/10Koł	nm full sca	e, user se	lectable.	Accuracy a	and linear	ity: +/-0.5	% of rated					
3.Vout resistor programming 4.lout resistor programming (*15)		0~100%, 0 0~100%, 0	~5/10Koł ~5/10Koł	nm full sca nm full sca	e, user se e, user se	lectable.	Accuracy a Accuracy a	and linear and linear	ity: +/-0.5	% of rated					
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23)		0~100%, 0 0~100%, 0 0~5V or 0-	∼5/10Koł ∼5/10Koł ~10V, user	nm full sca nm full sca selectabl	le, user se le, user se e. Accurac	lectable. lectable. :y: +/-0.5%	Accuracy a Accuracy a 6 of rated	and linear and linear Vout.	ity: +/-0.5	% of rated					
3.Vout resistor programming 4.lout resistor programming (*15)		0~100%, 0 0~100%, 0	∼5/10Koł ∼5/10Koł ~10V, user	nm full sca nm full sca selectabl	le, user se le, user se e. Accurac	lectable. lectable. :y: +/-0.5%	Accuracy a Accuracy a 6 of rated	and linear and linear Vout.	ity: +/-0.5	% of rated					
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23)	 	0~100%, 0 0~100%, 0 0~5V or 0-	∼5/10Koł ∼5/10Koł ~10V, user	nm full sca nm full sca selectabl	le, user se le, user se e. Accurac	lectable. lectable. :y: +/-0.5%	Accuracy a Accuracy a 6 of rated	and linear and linear Vout.	ity: +/-0.5	% 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 ~10V, user	nm full sca nm full sca selectabl selectabl	le, user se le, user se e. Accurac e. Accurac	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5%	Accuracy a Accuracy a 6 of rated 6. of rated	and linear and linear Vout. lout.	ity: +/-0.5 ^c ity: +/-0.5 ^c	% of rated % of rated	lout.	30V, Maxi	mum Sink	Current:	10mA.
3.Vout resistor programming 4.Jout 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	 F) 	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Power sup CV/CC Mo	~5/10Koł ~5/10Koł ~10V, user ~10V, user ply outpu nitor. Ope	nm full sca nm full sca selectabl selectabl ut monitor n collecto	le, user se le, user se e. Accurac e. Accurac e. Accurac r. Open co r. CC mod	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5% llector. Ou le: On. CV	Accuracy a Accuracy a of rated 1 of rated b. of rated tiput On: 0 mode: Off	and linear and linear Vout. Iout. On. Outpu f. Maximu	ity: +/-0.5 ity: +/-0.5 ity: +/-0.5 it Off: Off. m Voltage	% of rated % of rated Maximun :: 30V, Max	lout. n Voltage: timum Sinl	k Current:	: 10mA.		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	 T) 	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	nm full sca nm full sca selectabl selectabl ut monitor n collecto log 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 le: On. CV pontrol by e	Accuracy a Accuracy a 6 of rated 6. of rated 6. of rated 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d	ity: +/-0.5 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 OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	 T) 	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	nm full sca selectabl selectabl ut monitor en collecto log progra g control r	le, user se le, user se e. Accurac e. Accurac c. Open co r. CC mod mming co nonitor si	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Open	Accuracy a Accuracy a 6 of rated 6. of rated 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote:	ity: +/-0.5 ity: +/-0.5 it Off: Off. m Voltage ry contact 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 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	 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	~5/10Koł ~5/10Koł ~10V, user 10V, user ply outpu nitor. Ope sable ana ogrammin sable PS o	im full sca selectable selectable ut monitor in collecto log progra g control i output by e	e, user se e, user se e. Accurac e. Accurac e. Accurac r. CC mod mming co nonitor si electrical	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Open signal or d	Accuracy a Accuracy a 6 of rated 6 of rated 10 of rate	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V d	ity: +/-0.5 ity: +/-0.5 it Off: Off. m Voltage ry contact On. Local: or short, 2	% of rated % of rated Maximum :: 30V, Max t. Remote: Off. Maxir ~30V or o	Iout. n Voltage: imum Sin : 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.Jout 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	 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	m full sca m full sca selectabl selectabl ut monitor n collecto log progra g control i utput by e utput by e	e, user se e, user se e. Accurac e. Accurac e. Accurac of r. CC mod mming co nonitor si electrical electrical	lectable. / lectable. / :y: +/-0.5% :y: +/-0.5% llector. Ou llector. Ou le: On. CV ontrol by e gnal. Opei signal or d signal or d	Accuracy a Accuracy a 6 of rated ' 6. of rated utput On: (mode: Off electrical s n collector iry contac ry contac	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V t. Remote	ity: +/-0.5' ity: +/-0.5' it Off: Off. m Voltage ry contact On. Local: or 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.	
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3.Vout resistor programming 4.Jout 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	 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 ~10V, user ply outpu nitor. Ope sable anal ogrammin sable PS co sable PS co drain pro low level	am full sca am full sca selectabl selectabl ut monitor en collecto log progra g control r utput by e utput by e grammab input volt	le, user se le, user se e. Accurace e. Accurace . Open co r. CC mod mming co nonitor si electrical : e signals. age = 0.8	lectable. / lectable. / lectable. / y: +/-0.5% :y: +/-0.5% llector. Ou lector. Ou lector. Ou lector. Ou gnal. Oper signal or d signal or d Maximun V,Minimur	Accuracy a Accuracy a 6 of rated 6 of rated 16 of rated 16 of rated 17 of rated 17 of rated 18 of rated 19 of rate	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V o t. Remote 25V, Maxii rel input v	ity: +/-0.5 ^c ity: +/-0.5 ^c ity: +/-0.5 ^c ity Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o r short, 2 : 0~0.64 v mum sink oltage = 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxin ~30V or o r short. Loc 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.Jout 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	 T) -	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- CV/CC Moi Enable/Di: analog proc Enable/Di: Enable/Di: Two open Maximum	~5/10Koh ~5/10Koh ~10V, user ~10V, user ~10V	am full sca am full sca selectabl selectabl ut monitor en collecto log progra g control r uutput by e grammab input volt Tr,Tf=1us l	le, user se le, user se e. Accurac e. Accurac o. Open co r. CC mod mming co mming co monitor si electrical : e signals. age = 0.8 Maximum	lectable. / lectable. / cy: +/-0.5% cy: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper signal or d Maximun V,Minimuu , Min dela	Accuracy a Accuracy a 6 of rated 6 of rated 10 of rate	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V o t. Remote 25V, Maxii rel input v	ity: +/-0.5 ^c ity: +/-0.5 ^c ity: +/-0.5 ^c ity Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o r short, 2 : 0~0.64 v mum sink oltage = 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxin ~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.Jout 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	 T) 	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	am full sca am full sca selectabl selectabl ut monitor on collecto log progra g control r utput by e grammab input volt Tr,Tf=1us l e: 0~0.6V/2	le, user se le, user se e. Accurac e. Accurac e. Accurac mming co mming co mming co mming co monitor si electrical : e signals. age = 0.8 Maximum 2~30V or co	lectable. / lectable. / ry: +/-0.5% ry: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper signal or d signal or d Maximum V, Minimuu , Min dela dry contac	Accuracy a Accuracy a 6 of rated 6 of rated 10 of rate	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V o t. Remote 25V, Maxii rel input v	ity: +/-0.5 ^c ity: +/-0.5 ^c ity: +/-0.5 ^c ity Off: Off. m Voltage ry contact On. Local: or short, 2 : 0~0.6V o r short, 2 : 0~0.64 v mum sink oltage = 2	% of rated % of rated Maximun : 30V, Max t. Remote: Off. Maxin ~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.Jout 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	 T) -	0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Enable/Dii Enable/Dii Enable/Dii Enable/Dii Two open Maximum tw=10us n By electrici 4~5V=OK, Possible, L	~5/10Koł ~5/10Koł -10V, user -10V, user -10V	Im full sca m full sca selectable selectable at monitor on collecto log progra g control i sutput by e grammab input volt Tr.Tf=1us j e: 0~0.6V/ hm imped	le, user see le, user see e. Accurace e. Accurace e. Accurace e. Accurace of the second second mming control mming control ming	lectable. / lectable. / lectable. / y: +/-0.5% y: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper signal or d signal or d signal or d Maximum /, Minimuu , Min dela dry contac il	Accuracy a Accuracy a 6 of rated 6 of rated 16 of rated 17 of rated 18 of rated 19 of rate	and linear and linear Vout. lout. 0n. Outpu f. Maximu signal or d f. Remote: t. 0~0.6V t. Remote 25V, Maxii el input v n 2 pulses	ity: +/-0.5 ^{cf} ity: +/-0.5 ^{cf} ity: +/-0.5 ^{cf} ity:	% of rated % of rated Maximun : 30V, Maxi : Remote: Off. Maxir ~30V or oj r short. Lc current 1(.5V, Maxir	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 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	 	0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Dii Enable/Dii Enable/Dii Enable/Dii Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi	~5/10Koł ~5/10Koł 10V, user 10V, user 10V, user sable anal grammin sable PS c sable PS c drain pro low level ninimum. al Voltago 0V (5000	Im full sca Im full sca selectable is selectable it monitor in collectable input volt Tr,Tf=lus l e: 0~0.6V/ hm imped (4) identic y	le, user see le, user see e. Accurace e. Accurace de accurace e. Accurace de accurace e signals. age = 0.8° Aaximum Aaximum ance)=Fa al GSP un	lectable. / lectable. / lectable. / lectable. / vy: +/-0.5% llector. OL illector. OL ignal. Oper ignal or d gnal. Oper ignal or d signal or d Maximun V,Minimur , Min dela dry contac il	Accuracy a Accuracy a 6 of rated 6. of rated httput On: 4 mode: Off electrical s n collector iry contac n voltage m high lev y between t.	and linear and linear Vout. lout. On. Outpu f. Maximu signal or d r. Remote: t. 0~0.6V t. Remote 2SV, Maximu rel input v n 2 pulses	ity: +/-0.5" ity: +/-0.5" ity: +/-0.5" m Voltage ry contacl On. Local: or short, 2 : 0~-0.6V o mum sink oltage = 2 1ms.	% of rated % of rated Maximun : 30V, Maxi : 30V, Maxir ~30V or oj r short. Lo current 11 .5V, Maxir .5V, Maxir	n Voltage: imum Sini i 0~0.6V or num Volta pen. User : ical: 2~30V 00mA (Shu num high	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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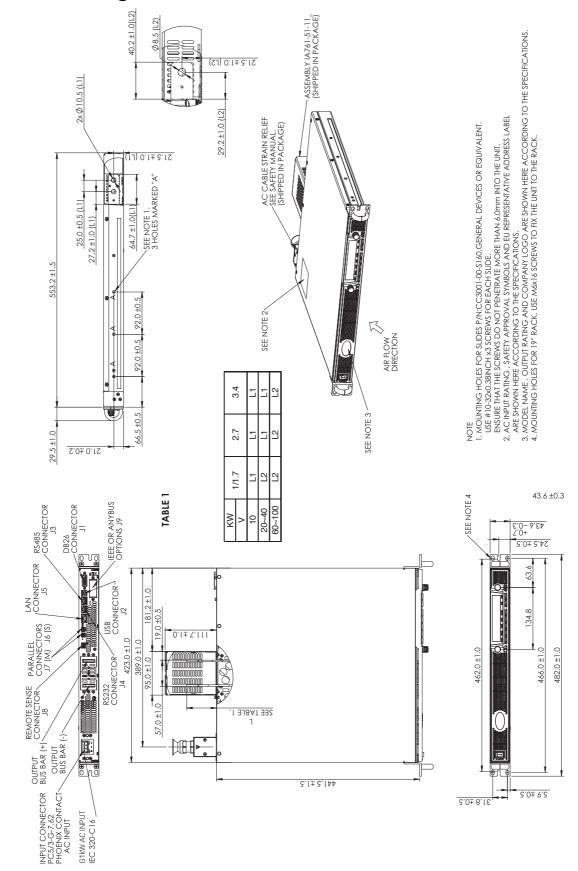
GENESYS[™] GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	15	0	200	300	400	500	600		
1.Foldback protection			Output sh User prese				y changes ycle in aut												
2.Over-voltage protection (OVP)			Output sh	ut-down	. Reset by	AC input	recycle in	autostart	mode, by	OUTPUT	button	, by re	ar pane	l or by cor	nmunicat	on.			
3.Over -voltage programming ra	nge	V	0.5~12	1~24	2~36	2~44.1	5~55.125	5~66.15	5~88.2	2 5~110.	25 5~16	5.37	5~220.5	5~330.75	5~441	5~551.25	5~661.		
 Over-voltage programming ac 	curacy		+/-1% of r	ated outp	out voltag	e													
5.Output under voltage limit (UV	L)														t.				
6.Over temperature protection			Shuts dov	vn the ou	tput. Auto	o recovery	/ by autost	art mode											
7. Output under voltage limit (UV	′L)		Prevents a	Prevents adjustment of Vout below limit. Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart															
8. Output under voltage protecti	on (UVP)		Prevents a mode, by	idjustme 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	ig under nmunica	oltage ion.	condi	ion. Res	et by AC i	nput recy	cle in auto	start		
FRONT PANEL																			
1.Control functions			Multiple o	ptions w	ith 2 Enco	ders													
			Vout/lout	/Power L	imit manu	ial adjust													
			OVP/UVL/																
			Protection	n Functio	ns - OVP, l	JVL,UVP, I	oldback, (DCL, ENA,	ILC										
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.																
			Output Ol																
			Communication Functions - Selection of Baud Rate, Address, IP and communication language.																
			,																
			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.																
2.Display			Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.																
			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.																
3.Front Panel Buttons Indications		OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.																	
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		%																	
, , ,		%																	
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	: 10000ft	: (3000m),	output ci	irrent dera	ting 2%/ I	00m or 1	a deratin	g 1°C/10	um ab	ove 200	um. Non d	operating	40000ft (12000m).		
MECHANICAL																			
1.Cooling			Forced air	cooling	by interna	l fans. Air	flow direc	tion: fron	n Front pa	anel to po	wer sup	ply re	ar						
2.Weight	GSP 10kW	kg	Less than	15.5kg.															
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H W: 423, H	: 88, D: 44 : 88, D: 64	41.5 (Witho 40 (Includi	out busbai ng busbar	rs and busk s and busb	ars cover) ars cover,	, and strair	n relief) (R	efer to C	Dutline	drawing	g).					
2.Weight	GSP 15kW	kg	Less than	23.5kg.															
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H W: 423, H							strain rel	ief) (Ref	er to C)utline d	lrawing).					
4.Vibration			MIL-810G,	method	514.6, Pro	cedure I,	test condit	ion Anne	x C - 2.1.3	.1									
5.Shock			Less than	20G. half	sine, 11m	Sec. Unit	is unpacke	d.											
SAFETY/EMC	1	-																	
1.Applicable standards:	Safety		UL61010-1	-		-					lion on	ionel	vo Non	Hazardou					
1.1. Interface classification			60≤Vout≤	600V Mo	dels: Outp	out & J8 (s	ł, J5, J6, J7, ense) are ł	azardou	s, J1, J2, J3	3, J4, J5, J	5, J7 & J9	(com	munica	tion optio	s. ns) are No	n Hazardo	ous.		
1.2 Withstand voltage			Input - Gr 60V≤Vou Output & Output & 100V <vo Output & Output & Input - Gr</vo 	round: 28 t≤100V N J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens round: 28	335VDC Models: Ir se) - J1, J se) - Grou Models: se) - J1, J se) - Grou 335VDC	1min. 1put – Ou 2, J3, J4, Ind: 1500 Input – O 2, J3, J4, Ind: 2500 1min.	J5, J6, J7 VDC 1mir utput & J8 J5, J6, J7 VDC 1mir	(sense), 7 & J9 (ca 1, Input - 8 (sense) 7 & J9 (ca 1.	J1, J2, J ommunic Ground: , J1, J2, C ommunic	3, J4, J5 ation op 2835VD J3, J4, J5 ation op	, J6, J7 tions): 8 C 1min 5, J6, J7	& J9 350VE	(commu)C 1min J9 (com	unication	options):	4242VDC	C 1min,		
1.3 Insulation resistance			GSP10kW/	/15kW: 60) Mohm at	25°C, 70	%RH. Outp	ut to Gro	und 500	VDC									
2.Conducted emmision			IEC/EN612	04-3 Ind	ustrial en	/ironmen	t, Annex H	table H.1	, FCC Par	t 15-A, VC	CI-A.								
3.Radiated emission			IEC/EN612									CI-A.							
5.Ndulateu eniission																			

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

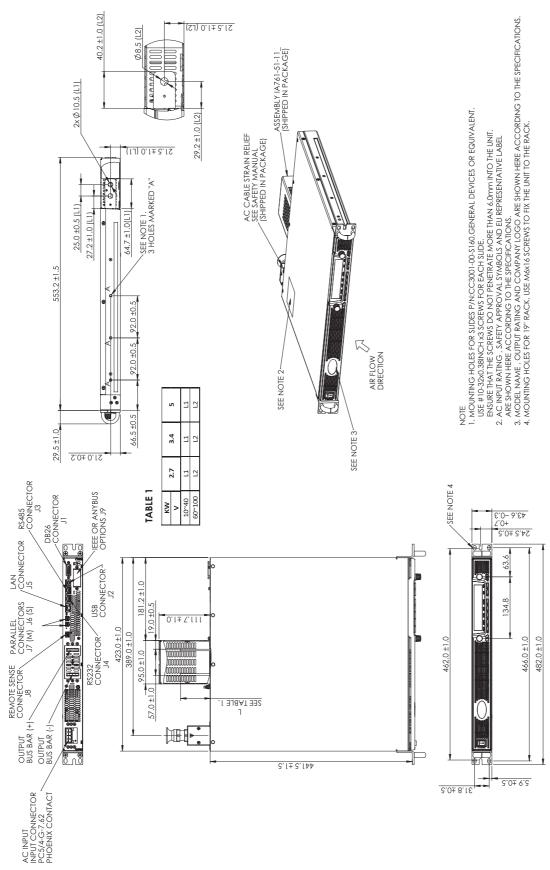
"NOTES:

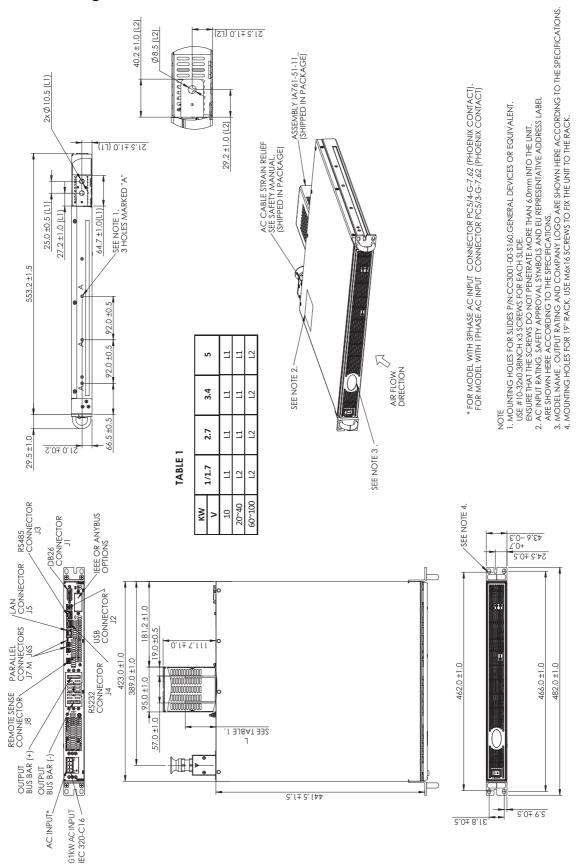
*NOTES:
*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
*3: GSP 104W: Derate 10A/1°C above 40%C.
*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described 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 300A up to 30°C.
*20: SSP10KW For 10W model only: Max. output current for using IEEE is 1200A up to 40°C and 3150A 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

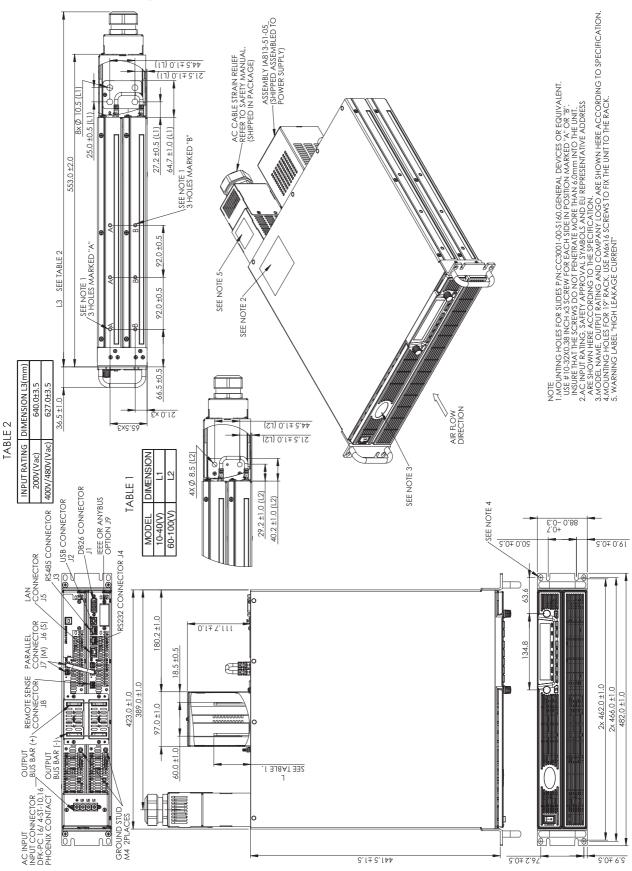


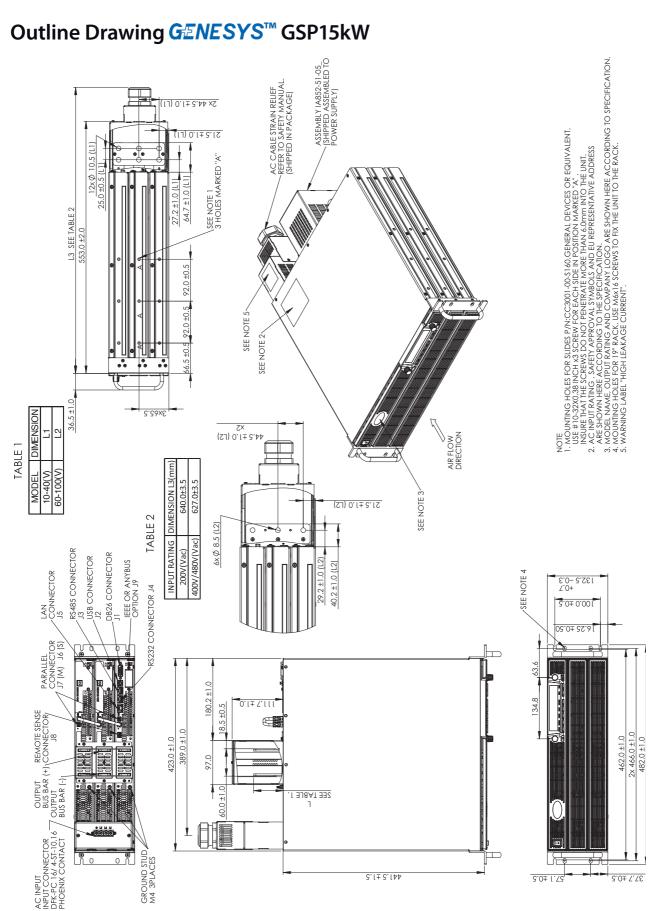




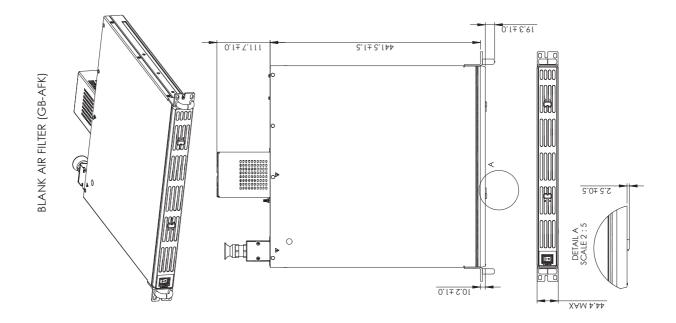
Outline Drawing GENESYS[™] GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

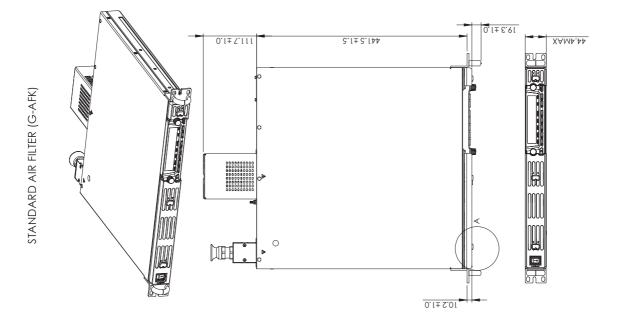
Outline Drawing GENESYS[™] GSP10kW





Outline Drawing GENESYS[™] Air Filter Kit





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Front Panel Air Filter Assembly

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

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



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



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

Accessories

1. Front Panel dust filter / Field installation kit:

Technical Specifications: Unit with Air Filter Assembly Installed

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

Filter Foam Technical Specifications

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

Air Filter Assembly Components

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

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

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

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