



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/Iout)
- 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



TDK-Lambda

Innovating Reliable Power
www.emea.lambda.tdk.com



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

Features include:

- Leading DC Programmable power density (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 30kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

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

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

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

Higher power systems can be configured with up to six 5kW units. Each unit is 1U with zero space between them (zero stack).

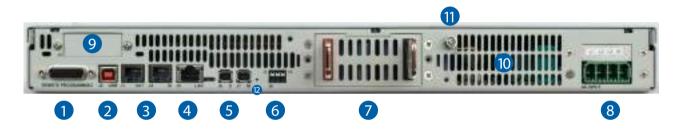
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

G1kW-5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



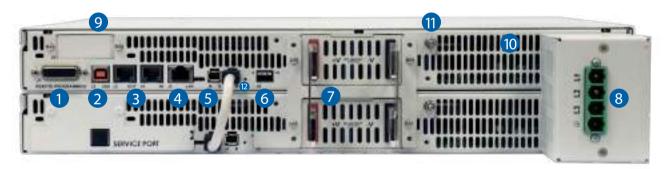
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

GSP10kW Front Panel Description



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

GSP10kW Rear Panel Description



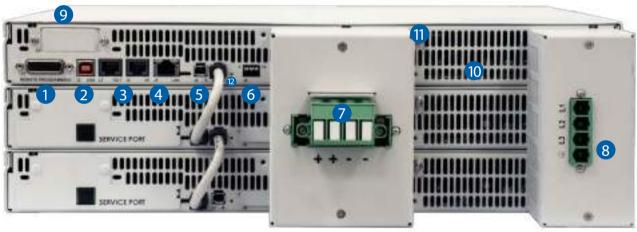
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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.
- 8. Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

GSP15kW Front Panel Description



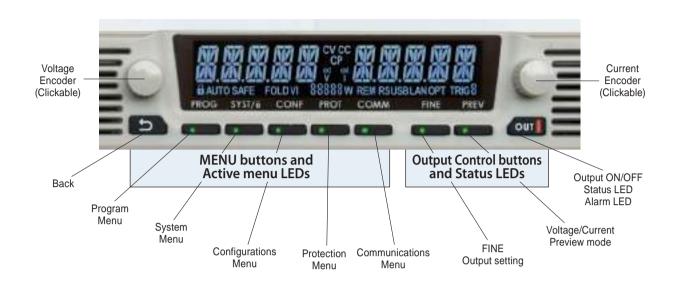
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

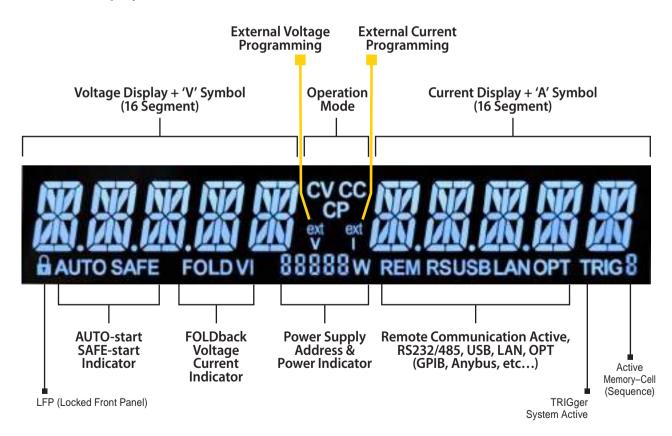


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- $5. \quad \text{Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.} \\$
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- Output Connections: Rugged busbars 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:



Front Panel Display indicators



GENESYS™ G&GSP Series Blank Front Panel (ATE version) POWER (LED) OUT (LED) REM (LED) OUT (LED) REM (LED)

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∉NESYS[™] Parallel and Series Configurations

Parallel operation - Master/Slave:

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

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

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

Order P/N: G/P - 6U

Series operation

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

Multi-Drop Remote Programming via Communication Interface

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

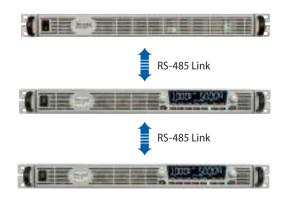
- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.





Standard Unit - zero stacked up to 6 units

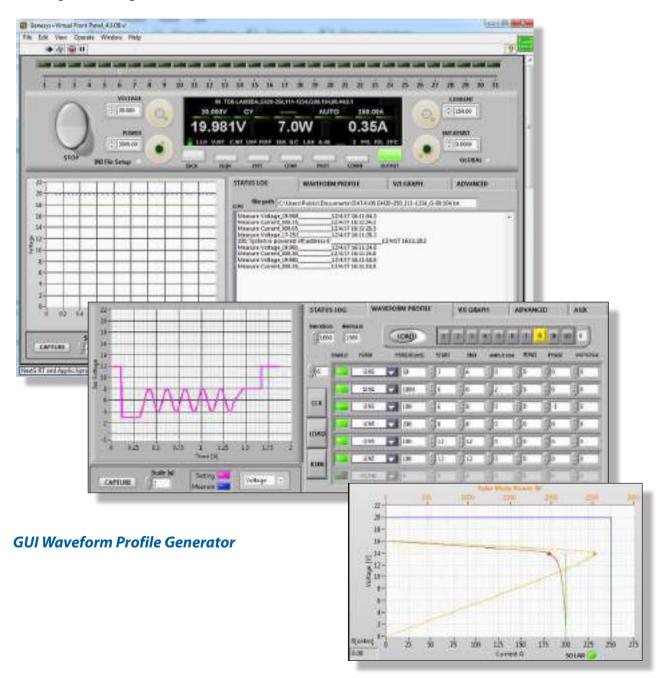




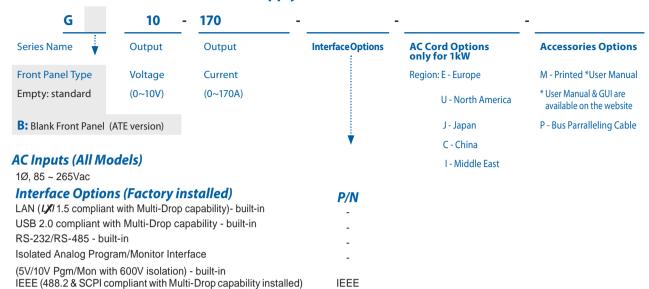
Graphical User Interface

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



MDBS

ECAT

Models 1kW

Modbus-TCP

EtherCAT

	Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
Ì	G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5	1000
Ì	G20-50	0~20V	0~50	1000	G100-10	0~100V	0~10	1000
Ì	G30-34	0~30V	0~34	1020	G150-7	0~150V	0~7	1050
ĺ	G40-25	0~40V	0~25	1000	G300-3.5	0~300V	0~3.5	1050
ĺ	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)
G10-170	0~10V	0~170	1700
G20-85	0~20V	0~85	1700
G30-56	0~30V	0~56	1680
G40-42	0~40V	0~42	1680
G60-28	0~60V	0~28	1680

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

Accessories

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

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

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

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

Daisy-chain up to 31 **GENESYS™** 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

Series Name : Output Output InterfaceOptions
Front Panel Type Voltage Current
Empty: standard (0~10V) (0~340A)

B: Blank Front Panel (ATE version)

340

Interface Options (Factory installed)

10

LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in Isolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in IEEE (488.2 & SCPI compliant with Multi-Drop capability installed) Modbus-TCP EtherCAT

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

P/N
-

IEEE

MDBS

ECAT

AC Input Options

1P208 (Single Phase 170~265VAC)

Accessories Options

- M Printed *User Manual
- * User Manual & GUI are available on the website
- P Bus Parralleling Cable

Models G2.7kW

G

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

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

Models G3.4kW

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

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

Accessories

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

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

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

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

Daisy-chain up to 31 GENESYS[™] power supplies.

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

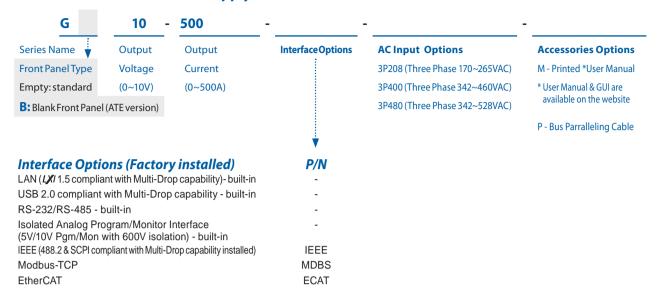
3. Bus Paralleling cable

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

4. User Manual

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	Printed User Manual	G/M

How to order G5kW - Power Supply Identification / Accessories



Models 5kW

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

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

Accessories

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

1. Serial Communication cable

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

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

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

Daisy-chain up to 31 GENESYS[™] power supplies.

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

3. Bus Paralleling cable

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

4. User Manual

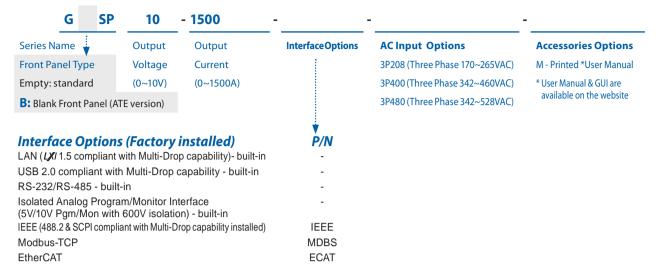
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	Printed User Manual	G/M

5. Parallel Kit: 20kW/30kW

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

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

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



Models GSP 10kW

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

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

Models GSP 15kW

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

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

Accessories

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

1. Serial Communication cable

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

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

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

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

3. User Manual

Printed User Manual	G/M

GENESYS[™] Family Output Voltage and Current

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

AC Input Range

7131119							
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*
3P400	N/A	N/A	*	*	*	*	*
3P480	N/A	N/A	*	*	*	*	*

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



Models 1kW

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

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

Models 1.5kW

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

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

GENESYS™ 1kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	Α	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3.Power Factor (Typ) 4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	0.99 @ 100Va 86/88	c 0.98 @ 200 87/89	Vac, rated out 87/89	put power. 87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	70 A	Less than 50A		0//09	0//09	07/09	0//09	00/90	00/90	00/90	00/90
			1	20	40		00	100	150	200	500
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6) 2.Max. Load regulation (*7)			d output volta d output volta	-							
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C			ut voltage, fol				12		20	100
6.Temperature stability							. Constant line	e. load & temr).		
7. Warm-up drift							ing power on				
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for outp	out voltage to	recover within	0.5% of its ra	ted output fo	r a load chang	e 10~90% of r	ated output c	urrent. Output	set-point:
				than 1mS, for	models up to	and including	100V. 2mS, fo	r models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	2C		22	ma turi - 1 ·	ad autor :				
13.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
1.Max. Line regulation (*6)		0.02% of rate	d output curr	ent. +2mA							
2.Max. Load regulation (*9)		0.02% of rate	d output curr	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C						nutes warm-up).			
Shemperature esemblent	, -						utes warm-up.				,
6.Temperature stability							. Constant line		-		
7. Warm-up drift							minutes follo		n.		
·		150V~600V: L	ess than +/-0	.15% of rated o	utput current	over 30 minu	tes following p	oower on.		,	,
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROMT	HE OUTPUT)									
1.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	ut.			
3. Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full:	scale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor				able. Accuracy							
6.Output current monitor (*14)		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal		Power supply	output moni	tor. Open coll	ector. Output	On: On. Outpu	ıt Off: Off. Max	imum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal		CV/CC Monite	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30\	/, Maximum S	ink Current: 1	0mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming coi	ntrol by electri	ical signal or d	ry contact. Re	mote: 0~0.6V	or short. Loca	al: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal		analog progr	amming contr	ol monitor sig	nal. Open colle	ctor. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma	ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~30\			ogic.	
6. INTERLOCK (ILC) control		Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)									
7. Programmed signals											
8. TRIGGER IN / TRIGGER OUT signals										level input =	5V positive
9. DAISY_IN/SO control signal					ı—ıus MaxIII	iurri, iviiri del	ay between a	haises iills	•		
		edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. By electrical Voltage: 0~0.6V/2~30V or dry contact.									
10 DAISY OUT/PS OK #2 signal		-			y contact.						
10. DAISY_OUT/PS_OK #2 signal		-		pedance)=Fail	y contact.						
FUNCTIONS AND FEATURES		4~5V=OK, 0V	(500ohm imp	oedance)=Fail							
FUNCTIONS AND FEATURES 1. Parallel operation		4~5V=OK, 0V Possible. Up 1	(500ohm imp	edance)=Fail units in Master	/Slave mode.		ction manual.				
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		4~5V=OK, 0V Possible. Up t	(500ohm imp to 4 identical u	pedance)=Fail units in Master ss. Refer to ins	/Slave mode. I	al.					
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		4~5V=OK, 0V Possible. Up to Possible. Two Power supplies	to 4 identical unites can be con	units in Master s. Refer to ins	/Slave mode. truction manu y chain to syn	al. chronize their	turn-on and t	urn-off.			
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou	to 4 identical unites can be controlled to the c	units in Master s. Refer to ins nected in Dais a proggramm	/Slave mode. truction manu y chain to syn ned value. Pro	al. chronize their gramming via	turn-on and t	urn-off. cation ports c			
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control		Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri	to 4 identical unites can be contput power to es resistance.	units in Master s. Refer to ins nected in Dais a proggramn Resistance rai	/Slave mode. truction manu y chain to syn ned value. Pro nge: 1~1000m	al. chronize their gramming via ιΩ. Programm	turn-on and t the communion	urn-off. cation ports c nmunication	ports or the fr	ront panel.	viathe
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri	to 4 identical united to the control of the control	units in Master s. Refer to ins- nected in Dais a proggramm Resistance rai	/Slave mode. truction manu y chain to syn ned value. Pro nge: 1~1000m all slew rate. Pro	al. chronize their gramming via ιΩ. Programm	turn-on and t the communion	urn-off. cation ports c nmunication	ports or the fr		viathe
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control		4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	to 4 identical unites can be contput power to es resistance. le Output rise on ports or the	units in Master ss. Refer to instructed in Dais a proggramm Resistance rai and Output file front panel.	/Slave mode. I truction manu y chain to syn ned value. Pro nge: 1~1000m all slew rate. Pr	al. chronize their gramming via ιΩ. Programm rogramming r	turn-on and t the communic ing via the cor ange: 0.0001~	urn-off. cation ports on mmunication 999.99 V/mSe	ports or the fi ec. or A/mSec.	ront panel.	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN.		4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	to 4 identical unites can be contput power to es resistance. le Output rise on ports or the	units in Master ss. Refer to instructed in Dais a proggramm Resistance rai and Output file front panel.	/Slave mode. I truction manu y chain to syn ned value. Pro nge: 1~1000m all slew rate. Pr	al. chronize their gramming via ιΩ. Programm rogramming r	turn-on and t the communic ing via the cor ange: 0.0001~	urn-off. cation ports on mmunication 999.99 V/mSe	ports or the fi ec. or A/mSec.	ront panel. Programming	
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)		4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up	to 4 identical united scan be continued to the continued	units in Master is. Refer to insinected in Dais a proggramm Resistance rar and Output fi e front panel.	/Slave mode. Itruction manu y chain to syn ned value. Pro- nge: 1~1000m all slew rate. Pro- n 4 memory c	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the freecore A/mSeconunication po	ront panel. Programming orts or by the fr	ont panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15)	 V	4~5V=OK, OV Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate	to 4 identical unites can be contput power to es resistance. le Output rise on ports or it to 100 steps of to do utput volta.	units in Master s. Refer to instanced in Dais a proggramm Resistance rate and Output f.e e front panel. can be stored i	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the freecore A/mSeconunication po	ront panel. Programming orts or by the fr	ont panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	V	4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua	to 4 identical unites can be contput power to es resistance. le Output rise on ports or the to 100 steps of the total steps of the to	units in Master s. Refer to insinected in Dais a proggram and Output f. e front panel. can be stored 30	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the freecore A/mSeconunication po	ront panel. Programming orts or by the fr	ont panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Yout programming accuracy (*15) 2. lout programming accuracy (*15) 3. Vout programming resolution	 V	4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rate 0.002% of rate possible to possible the possible to possible the possible to possible the possible to possible the possibl	to 4 identical units can be con the total units of the control units of	units in Masters. Refer to instructed in Dais a proggramm Resistance rail and Output file front panel. Can be stored in 30 age int+0.2% of ratage	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the free. or A/mSec.	ront panel. Programming orts or by the fr	ont panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	 V	4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0	to 4 identical unites can be contput power to es resistance. le Output rise on ports or the to 100 steps of the total steps of the to	units in Master s. Refer to insinected in Dais a proggramm Resistance rai and Output file front panel. can be stored i 30 age int+0.2% of raitage rent	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the free. or A/mSec.	ront panel. Programming orts or by the fr	ont panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 2. Lout programming accuracy (*15) 2. Lout programming accuracy (*14) 3. Vout programming resolution 4. Lout programming resolution		4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate 0.005% of rate 0.005% of rate 0.05% of rat	to 4 identical unit of the control o	units in Master s. Refer to insinected in Dais a proggramm Resistance rai and Output free front panel. can be stored i 30 age int+0.2% of rai tage rent age	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the fr cc. or A/mSec. munication po	ront panel. Programming orts or by the fr	600
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.lout programming resolution 5.Vout readback accuracy	V	4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate 0.005% of rate 0.005% of rate 0.05% of rat	to 4 identical unit es can be con tput power te es resistance. le Output son to 100 steps of 20 d output volt. I output curre ed output volt ed output cure ed output volt ed output cure ed output cure ed output volt ed output cure ed output volt ed output cure ed output volt	units in Master s. Refer to insinected in Dais a proggramm Resistance rai and Output free front panel. can be stored i 30 age int+0.2% of rai tage rent age	//Slave mode. irruction manu y chain to syn ned value. Progres: 1~1000m all slew rate. Progress of the memory companies of the	al. chronize their gramming via Ω. Programm rogramming r ells. Activation	turn-on and t the communi- ing via the cor ange: 0.0001~ n by command	urn-off. cation ports c nmunication 999.99 V/mSe I via the comr	ports or the fr cc. or A/mSec. munication po	ront panel. Programming orts or by the fr	600
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.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*14)		4~5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.2% of rated 0.2	co 4 identical unites can be con the control of the	units in Masters. Refer to instance ted in Dais a proggramm Resistance rate and Output file front panel. can be stored in Dais and Early	//Slave mode. Itruction manu y chain to syn med value. Progrege: 1~1000m all slew rate. Progrege: 1400m all slew rate. Progress	al. chronize their gramming via Ω Programm rogramming r ells. Activation 60	turn-on and t the communi- ing via the cor ange: 0.0001~ n by commanc	urn-off. cation ports of mmunication 999.99 V/mSe I via the comm	ports or the free or A/mSec. or A/mSec. munication po	ront panel. Programming orts or by the fr 300	600

GENESYS™ 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-170	20-85	30-56	40-42	60-28	80-21	100 17		200 5 6	
									100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)	-	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	170	85	56	42	28	21	17	11.2	5.6	2.8
3.Rated output power		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						•
2. Maximum Input current at 100	% load (100/200)	Α	20/10									
3.Power Factor (Typ)			0.99 @ 100Va	c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, ra	ted output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		Α	Less than 50A									
					ı						1	
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			0.01% of rate	d output volta	ige .							
2.Max. Load regulation (*7)			0.01% of rate	d output volta	age +2mV							
3.Ripple and noise (p-p, 20MHz) ((*Q)	mV	50	50	50	60	60	75	75	75	120	500
	(0)					7	7					
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6		l .	10	12	8	20	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up					
6.Temperature stability			0.01% of rate	d Vout over 8h	nrs interval fol	lowing 30 min	utes warm-up	. Constant line	e, load & temp	p.		
7. Warm-up drift			Less than 0.0	1% of rated οι	tput voltage+	-2mV over 30 n	ninutes follow	ing power on				
8.Remote sense compensation/w	rire (*10)	V	2	2	5	5	5	5	5	5	5	5
	110 (10)	-										
9.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time:	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
10.Down-prog.response time.	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11 Transient vernens - *:			Time for outr	out voltage to	recover within	n 0.5% of its ra	ted output for	a load change	e 10~90% of i	rated output c	urrent. Output	t set-point:
11.Transient response time		mS	10~100%, Lo	cal sense. Less	than 1mS, for	models up to	and including	100V. 2mS, fo	r models abo	ve 100V.		
12.Start up delay		Sec	Less than 6 Se	ec								
13.Hold-up time		mS	1			161	ms typical, rat	ed output nov	ver			
.sord up time						101	(7) (10)	- a output pov				
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			0.01% of rate	d output curre	ent. +2mA							
2.Max. Load regulation (*9)				d output curr								
	(740)	_								1		
3.Ripple r.m.s. @ rated voltage. B.\	W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mir	nutes warm-up).			
3.Temperature coemicient		FFIVI/ C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 minu	ites warm-up.				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-un	. Constant line	e. load & temi	perature.		
						ated output co						
7. Warm-up drift					1 +/-0.2370 011	ateu output ci	unient over 30	minutes iono	willig power c	л.		
varm up tittt												
			150V~600V: L	ess than +/-0.	.15% of rated o	output current	over 30 minu	tes following p	ower on.			
·	AONITODING (ISOI ATED	EDOM T		ess than +/-0.	.15% of rated o	output current	over 30 minu	tes following p	oower on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		HE OUTPUT)									
·	MONITORING (ISOLATED	FROM T	HE OUTPUT)			Accuracy and						
ANALOG PROGRAMMING AND N			0~100%, 0~5	V or 0~10V, us	er selectable.		linearity: +/-0	.15% of rated \	/out.			
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14			0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us	er selectable. er selectable.	Accuracy and	linearity: +/-0 linearity: +/-0	.15% of rated \ .4% of rated lo	/out. out.			
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming)		HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. er selectable. scale, user sele	Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear	.15% of rated \ .4% of rated lo ity: +/-0.5% of	/out. out. rated Vout.			
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14))		HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full :	er selectable. er selectable. scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	.15% of rated \ .4% of rated lo ity: +/-0.5% of	/out. out. rated Vout.			
ANALOG PROGRAMMING AND M 1. Vout voltage programming (*14 3. Vout resistor programming (*14 5. Output voltage monitor)		THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. er selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accura ectable. Accura :: +/-0.5% of ra	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	.15% of rated \ .4% of rated lo ity: +/-0.5% of	/out. out. rated Vout.			
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14))		THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. er selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	.15% of rated \ .4% of rated lo ity: +/-0.5% of	/out. out. rated Vout.			
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14))		THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. er selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accura ectable. Accura :: +/-0.5% of ra	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	.15% of rated \ .4% of rated lo ity: +/-0.5% of	/out. out. rated Vout.			
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ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal)	 T)	HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 Power supply	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, user selecta V, user selecta V output moni	er selectable. er selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and ectable. Accura :: +/-0.5% of rate :: +/-0.5 of vate	linearity: +/-0 linearity: +/-0 accy and linear accy and linear ted Vout d lout.%.	.15% of rated \. .4% of rated \. ity: +/-0.5% of \. ity: +/-0.5% of \.	/out. rated Vout. rated lout.	je: 30V, Maxim		nt: 10mA.
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output voltage monitor (*14) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	 T)	Power supply	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V over selecta V, user selecta V output moni	er selectable. er selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy tor. Open collector. CC mode	Accuracy and Accuracy and Acctable. Accura ectable. Accura : +/-0.5% of rate : +/-0.5 of rote ector. Output (: On, CV mode	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	.15% of rated \cdot \cdot .4% of rated \cdot \cd	vout. rated Vout. rated lout. rated lout.	Sink Current: 10	DmA.	
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GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut- User presetal	down when pole. Reset by	power supply c AC input recyc	hanges mode le in autostart	from CV or P mode, by Po	ower Limit to wer Switch, by	CC mode or fr y OUTPUT but	om CC or Pow ton, by rear pa	er Limit to CV nel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset	by AC input red	cycle in autost	art mode, by	OUTPUT butt	on, by rear pa	nel or by comr	nunication.	
3.Over -voltage programming ran-		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming acc	uracy		+/-1% of rate	d output volt	age							
5.Output under voltage limit (UVL)				out below limi			programming	g. Preset by fro	ont panel or co	mmunication	port.
6.Over temperature protection					uto recovery b		de.					
7. Output under voltage limit (UVL	.)		Prevents adju	istment of Vo	out below limit							
8. Output under voltage protectio	n (UVP)		Prevents adjumode, by Pov	stment of Vo	out below limit y OUTPUT butt	. P.S output tui ton, by rear pa	ns Off during nel or by com	g under voltag nmunication.	ge condition. I	Reset by AC inp	out recycle in	autostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 En	coders							
			Vout/lout/Po									
			OVP/UVL/UV	P manual adj	ust							
			Protection Fu	nctions - OV	P, UVL,UVP, Fol	dback, OCL, El	NA, ILC					
			Communicat	ion Function	s - Selection of	LAN,IEEE,RS2	32,RS485,USE	or Optional o	ommunicatio	n interface.		
			Output ON/C									
					s - Selection of							
					- Selection Vol				10K programi	ming		
					- Selection of			g 5V/10V.				
2.Display					05% of rated o							
					2% of rated out							
3.Front Panel Buttons Indications					VIEW, FINE, COI							
4. Front Panel Display Indications			Voltage, Curr (communicat	ent, Power, C ion), RS/USB/	V, CC, CP, Exter /LAN/IEEE com	rnal Voltage, Ex munication, Tr	kternal Curre rigger, Load/	nt, Address, L Store Cell.	FP, Autostart,	Safetstart, Fol	dback V/I, Rer	note
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 1009	6 load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (no condensa	tion).							
4.Storage humidity		%	10~95% RH (r									
5.Altitude					n), output curre	ent derating 20	6/100m or Ta	derating 1°C/	/100m above 3	2000m Non on	erating: 4000	0ft (12000m)
			operating. It	100011 (30001	ii), output cuiri	ent derating 2	0/1001110111	derating i c/	TOOTH above 2	.000m. Non op	erating. 4000	011 (12000111).
MECHANICAL					.,							
1.Cooling			Forced air co	oling by inter	rnal fans. Air flo	ow direction: fr	om Front pa	nel to power s	supply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm			5 (Without bu 2 (Including b				Outline draw	ving).		
4.Vibration			MIL-810G, me	thod 514.6, F	Procedure I, tes	t condition Ar	nex C - 2.1.3.	1				
5.Shock			Less than 200	, half sine, 11	ImSec. Unit is u	ınpacked.						
SAFETY/EMC												
	Safety G1kW/G1.7kW		UL61010-1, C	A22.2 No.61	010-1, IEC61010	D-1, EN61010-1						
1.1. Interface classification	G1kW/1.7kW		Vout ≤40V M	odels: Outpu	t, J1,J2,J3,J4,J5 Output, J8 (ser	,J6,J7,J8 (sense	and ,J9 (cor	mmunication	options) are S d J9 (commun	ELV.	s) are SELV	
					t - Output (SE							
1.2 Withstand voltage	G1kW/1.7kW		60V≤Vout≤1	00V Models	: Input - Outpu DC 1min, Inpu	ut: 4242VDC	ımin, İnput -	SELV: 4242			850VDC 1m	in,
					: Input - Outpi DC 1min, Inpu				VDC 1min, O	utput - SELV:	1275VDC 11	nin,
1.3 Insulation resistance			-		I. Output to Gre							
2.Conducted emmision					environment, A		11 FCC Dovt	15-A VCCI-^				
3.Radiated emission	E115 (V.)				environment, A		1.5 and H4, F	CC Part 15-A,	VCCI-A			
4. EMC compliance	EMC (*4)		According to	IEC/EN61204	l-3 Industrial er	nvironment						

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 inrush current, less than 0.2mSec.

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

*7: From No-Load to Full-Load, constant input voltage.

*8: For 10V-300V models: Measured with JEITA RC-9131C (1:1) probe. For 400~600V model: Measured with 100:1 probe.

*9: For load voltage change, equal to the unit voltage rating, constant input voltage.

*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.

*11: From 10% to 90% of Rated Output Voltage, with rated, resistive load.

*12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.

*13: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output 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.

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
					~265Vac, 47~							
1.Input voltage/freg. 3 phase, 3 v	viro I Ground (*4)		3-Phase, 400	V models: 342	2~460Vac, 47~	63Hz (Covers	380/400/415V	/ac)				
1.iiiput voitage/iieq. 3 piiase, 3 v	viie + Giouna (4)		3-Phase, 480'	V models: 342	~528Vac, 47~	63Hz (Covers	380/400/415/4	40/460/480Va	ıc)			
			1-Phase, 200	V models: 170	~265Vac, 47~	63Hz (Covers 2	200/208/230/2	240Vac)				
	3-Phase, 200V models:		10A @ 200Va	c								
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va	ıc								
100% load	3-Phase, 480V models:	1	5.5A @ 380Va		-							
	1-Phase, 200V models:		16.5A @ 200V									
	T Thase/2007 models.				30Vac, rated or	itnut nower						
3.Power Factor (Typ)					, rated outpu							
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)					05.5	90	90	90.3	90.3	90.3	90.3	90.3
5.Inrush current (*6)		A	Less than 50A	١	-	-						
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volt	age						•	•
2.Max. Load regulation (*8)			0.01% of rate									
	(*0)			_ ·	1	75	90	90	100	120	200	400
3.Ripple and noise (p-p, 20MHz)	(~9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C			ut voltage, fo							
6.Temperature stability			0.01% of rate	d Vout over 8	hrs interval fo	llowing 30 mii	nutes warm-u	p. Constant lir	ne, load & tem	ıp.		
7. Warm-up drift			Less than 0.0	5% of rated o	utput voltage	+2mV over 30	minutes follo	wing power or	n.			
8.Remote sense compensation/v	vire (*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
p progracoporise time (11)	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)				800	900	1100					
	INO 1080 (* 12)	mS	450	600				1300	2100	2000	3200	3100
11.Transient response time		mS	I ime for outp	out voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chang	ge 10~90% of	rated output	current. Outp	ut set-point:
·					s than 1m5, to	r models up to	and includin	g 100V. 2mS, f	or models ab	ove 100V.		
12.Start up delay		Sec	Less than 6 Se	ec							_	
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
			0.05% of rate			70	00	00	100	150	300	000
1.Max. Line regulation (*7)												
2.Max. Load regulation (*13)			0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-	-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-	-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5 T		DD14 00C	10V~100V	100PPM/°C f	rom rated out	put current, fo	llowing 30 mi	inutes warm-u	ip.			
5.Temperature coefficient		PPM/°C						utes warm-up				
6.Temperature stability								p. Constant lin		nerature		
				odel: Less tha						•		
7. Warm-up drift										OII.		
7. Warm-up drift								utes following		OII.		
7. Warm-up drift ANALOG PROGRAMMING AND I	MONITORING (ISOLATED		150V~600V: L							on.		
ANALOG PROGRAMMING AND I	MONITORING (ISOLATED		150V~600V: L	ess than +/-0	.15% of rated	output curren	t over 30 minu	utes following	power on.	OII.		
ANALOG PROGRAMMING AND I		FROM	150V~600V: L THE OUTPUT) 0~100%, 0~5	ess than +/-0	.15% of rated ser selectable	output curren	t over 30 minu I linearity: +/-0	utes following 0.15% of rated	power on. Vout.	OII.		
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1!		FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0 V or 0~10V, u V or 0~10V, u	.15% of rated ser selectable ser selectable	Accuracy and	t over 30 minu I linearity: +/-(I linearity: +/-(utes following 0.15% of rated 0.4% of rated I	power on. Vout. out.	on.		
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1: 3.Vout resistor programming	5)	 	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full	ser selectable ser selectable scale, user sel	. Accuracy and . Accuracy and . Accuracy and ectable. Accur	t over 30 minu I linearity: +/-0 I linearity: +/-0 racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.		
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1: 3.Vout resistor programming 4.lout resistor programming (*1:	5)	 	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full /10Kohm full	ser selectable ser selectable scale, user sel scale, user sel	Accuracy and Accuracy and Accuracy and ectable. Accur	t over 30 minu I linearity: +/-0 I linearity: +/-0 racy and linea	utes following 0.15% of rated 0.4% of rated I	Vout. out. frated Vout.	UII.		
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1: 3.Vout resistor programming 4.lout resistor programming (*1: 5.Output voltage monitor	5)	 	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	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full /10Kohm full V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and Accuracy and ectable. Accur ectable. Accur ertable. Accur	t over 30 minu I linearity: +/-0 I linearity: +/-0 racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.		
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ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*12 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	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	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full /10Kohm full V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and Accuracy and ectable. Accur ectable. Accur extable. Accur	t over 30 minu I linearity: +/-0 I linearity: +/-0 racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	UII.		
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ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1! 3.Vout resistor programming 4.lout resistor programming 6.Dutput voltage monitor 6.Output voltage monitor 6.Output current monitor (*15) ISIGNALS AND CONTROLS (ISOL. 1. Power supply OK #1 signal	5)	D FROM 1 T)	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	V or 0~10V, u. V or 0~10V, u. V or 0~10V, u. /10Kohm full /10Kohm full IV, user select V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll	Accuracy and Accur	I linearity: +/-t I linearity: +/-t I linearity: +/-t racy and linea racy and linea On: On. Outp	0.15% of rated lowing view +/-0.5% or rity: +/-0.5% o	power on. Vout. out. frated Vout. frated lout.	ge: 30V, Maxin		rent: 10mA.
ANALOG PROGRAMMING AND I J.Vout voltage programming 2.lout voltage programming (*19 3.Vout resistor programming (*19 5.Output voltage monitor 6.Output voltage monitor 5.IGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal	S) ATED FROM THE OUTPU	D FROM 1 T)	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 Power supply CV/CC Monito	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full /10Kohm full W, user select W, user select v output mon or. Open colle	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll	Accuracy and Accur	I linearity: +/- I linearity: +/- I linearity: +/- racy and linea racy and linea On: On. Outp	0.15% of rated lowing view in the control of the co	vout. out. frated Vout. frated lout. ximum Volta	ge: 30V, Maxin Sink Current:	10mA.	
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ANALOG PROGRAMMING AND I Nout voltage programming 2.lout voltage programming (*1! 3.Vout resistor programming (*1! 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL. 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	ATED FROM THE OUTPU	D FROM " T)	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disal analog progra	V or 0~10V, u V or 0~10V, u V or 0~10V, u /10Kohm full /10Kohm full IV, user select V, user select v output mon or. Open colle ple analog pro	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy itor. Open coll sector. CC mode orgramming co or of monitor sig	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accuracy 2: +/-0.5%. Sector. Output Ector. Over modernal Open collection.	I linearity: +/-I linearity: +/-I linearity: +/-I cacy and linearacy and	0.15% of rated 0.4% of rated 1 rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Malm Voltage: 30 dry contact. Re	Vout. out. frated Vout. frated lout. ximum Volta V, Maximum emote: 0~0.6 Maximum Vo	ge: 30V, Maxir Sink Current: V or short. Loo dtage: 30V, Ma:	10mA. :al: 2~30V or o ximum Sink Cu	pen.
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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)		٧	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		٧	10	20	30	40	60	80	100	150	300	600
					~265Vac, 47~							
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	~460Vac, 47~	63Hz (Covers 63Hz (Covers	380/400/415 380/400/415/	440/460/480Va	ac)			
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		12.5A @ 200\ 6.5A @ 380Va 6.5A @ 380Va	ac								
	1-Phase, 200V models:		21A @ 200Va		0Vac, rated ou							
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/	Ä								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volta		-10	00	00	100	150	300	000
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	m rated outp	ut voltage, fol	lowing 30 mi	nutes warm-u	ip.				
6.Temperature stability								ıp. Constant liı		p.		
7. Warm-up drift						1		wing power o				
8.Remote sense compensation/w	rire (*10)	٧	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	E. II I 2 (#44)	mS	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS mc	50 450	50 600	80 800	900	80	100 1300	100 2100	100 2000	100 3000	200 3100
11.Transient response time	No load (*12)	mS mS	Time for out	out voltage to	recover withi	n 0.5% of its r	1100 ated output for and including		ge 10~90% of	rated output	current. Outpu	
12.Start up delay		Sec	Less than 6 Se									
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			-	d output curr		40	00	80	100	150	300	000
2.Max. Load regulation (*13)				d output curr								
3.Ripple r.m.s. @ rated voltage. 3-	Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-		mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
	,							inutes warm-u				
5.Temperature coefficient		PPM/°C						nutes warm-u				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 mi	nutes warm-u	ıp. Constant lir	ne, load & tem	perature.		
7. Warm-up drift								0 minutes following		on.		
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM 1	THE OUTPUT)									
1.Vout voltage programming				V or 0~10V, us	ser selectable.	Accuracy and	l linearity: +/-	0.15% of rated	l Vout.			
2.lout voltage programming (*15)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-	0.4% of rated	lout.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	racy and linea	arity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15)						racy and linea	arity: +/-0.5% c	of rated lout.			
5.Output voltage monitor					able. Accuracy							
6.Output current monitor (*15)			u~5V or 0~10	v, user select	able. Accuracy	/: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal											num Sink Curre	ent: 10mA.
2. CV/CC signal								um Voltage: 30				
3. LOCAL/REMOTE Analog contro	l .										al: 2~30V or o	
4. LOCAL/REMOTE Analog signal											kimum Sink Cu	rrent: 10mA.
ENABLE/DISABLE signal INTERLOCK (ILC) control								or short, 2~30 e: 0~0.6V or sh			iogic.	
7. Programmed signals								cimum sink cui			'V zener)	
8. TRIGGER IN / TRIGGER OUT sign	nals		Maximum le	ow level inpu	ut voltage =	0.8V,Minimu	m high leve	l input voltac	ge = 2.5V, Ma	ximum high	level input =	5V positive
9. DAISY_IN/SO control signal					5V/2~30V or d		num, Min de	elay between	ı∠ puises im	٥.		
10. DAISY_IN/SO control signal					oedance)=Fail							
				לעוו וואווססספי	Jeuarice)=FdII							
FUNCTIONS AND FEATURES			D 11	411 11 1		/CI :	D. C					
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation			Possible. Two	identical uni	ts. Refer to ins	truction man	ual.	uction manua				
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain			Possible. Two Power suppli	identical uni es can be con	ts. Refer to ins nected in Dai:	truction man sy chain to syr	ual. nchronize the	ir turn-on and	turn-off.	ov the f	anal	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control			Possible. Two Power suppli Limits the ou	identical uni es can be con tput power to	ts. Refer to ins nected in Dai: a proggramn	truction man sy chain to syr ned value. Pro	ual. nchronize the ogramming vi	ir turn-on and a the commur	turn-off. nication ports			
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control		 	Possible. Two Power suppli Limits the ou Emulates ser	identical uni es can be con tput power to ies resistance.	ts. Refer to ins nected in Dai: o a proggramn . Resistance ra	truction man sy chain to syr ned value. Pro nge: 1~1000r	ual. nchronize the ogramming vi nΩ. Programi	ir turn-on and a the commur ning via the co	turn-off. nication ports ommunication	ports or the	front panel.	n via the
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control			Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. ole Output rise ion ports or th	ts. Refer to ins nected in Dai: o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syn ned value. Pro nge: 1~1000r all slew rate. F	ual. nchronize the ogramming vi nΩ. Programi Programming	ir turn-on and a the commur ming via the co range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ec. or A/mSec	front panel. . Programmin	
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	CK (ICD LAN)		Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. ole Output rise ion ports or th	ts. Refer to ins nected in Dai: o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syn ned value. Pro nge: 1~1000r all slew rate. F	ual. nchronize the ogramming vi nΩ. Programi Programming	ir turn-on and a the commur ming via the co range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ec. or A/mSec	front panel.	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA		 	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. ole Output rise ion ports or th	ts. Refer to ins nected in Dai: o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syn ned value. Pro nge: 1~1000r all slew rate. F	ual. nchronize the ogramming vi nΩ. Programi Programming	ir turn-on and a the commur ming via the co range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ec. or A/mSec	front panel. . Programmin	
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 READBARS232/485, Optional IEEE(*19)(*20) Interfaces)		Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps	ts. Refer to ins nected in Dai: o a proggramm Resistance ra e and Output f ne front panel. can be stored	truction man sy chain to syn ned value. Pro nge: 1~1000r fall slew rate. F in 4 memory	ual. nchronize the ogramming vi nΩ. Program Programming cells. Activation	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA	(*20) Interfaces) 6)	 V	Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up	es can be con tput power to ies resistance. ole Output rise ion ports or th to 100 steps 20	ts. Refer to ins nected in Dai: o a proggramm Resistance ra e and Output f ne front panel. can be stored	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. nchronize the ogramming vi nΩ. Programr Programming cells. Activati	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA RES232/485, Optional IEEE(*19 1. Vout programming accuracy (*1)	(*20) Interfaces) 6)	V	Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up 10 0.05% of rate 0.1% of actual	es can be con tput power to ies resistance. ole Output rise ion ports or th to 100 steps 20	ts. Refer to ins nected in Dais a proggramm. Resistance ra e and Output f nee front panel. can be stored 30 age ent+0.2% of ra	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. nchronize the ogramming vi nΩ. Programr Programming cells. Activati	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READB/ RS232/485, Optional IEEE(*19 1. Vout programming accuracy (*) 2. lout programming accuracy (*)	(*20) Interfaces) 6)	V	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	o identical unites can be contput power to ies resistance. Ole Output rise ion ports or the to 100 steps of the contput volt.	ts. Refer to ins nected in Dais a proggramn Resistance ra and Output f ne front panel. can be stored 30 age ent+0.2% of ra	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. nchronize the ogramming vi nΩ. Programr Programming cells. Activati	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READB/RS232/485, Optional IEEE(*19 1. Vout programming accuracy (*1 3. Vout programming resolution 5. Vout readback accuracy	(*20) Interfaces) 6)	 V	Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate	es can be con tput power to ies resistance. Jee Output rise ion ports or the to 100 steps or the to 100 s	ts. Refer to ins nected in Dai: a programm. Resistance ra e and Output fe e front panel. can be stored 30 age age trent age	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. nchronize the ogramming vi nΩ. Programr Programming cells. Activati	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.
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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 READBA PREADBA PREADBA PROGRAMMING AND READBA PROGRAMMING PROG	(*20) Interfaces) 6) 5) ted output voltage)		Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate	es can be con tput power to ies resistance. Jee Output rise ion ports or the to 100 steps or the to 100 s	ts. Refer to ins nected in Dai: a programm. Resistance ra e and Output fe e front panel. can be stored 30 age age trent age	truction man sy chain to syr ned value. Pro nge: 1~1000r all slew rate. F in 4 memory o	ual. nchronize the ogramming vi nΩ. Programr Programming cells. Activati	ir turn-on and a the commur ming via the co range: 0.0001 on by commar	turn-off. nication ports mmunication ~999.99 V/mS nd via the com	ports or the ec. or A/mSec munication p	front panel. . Programming orts or by the	front panel.

GENESYS™ 5kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
							′~63Hz (Co									
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		,				7~63Hz (C									
	3-Phase, 200V models:		3-Phase, 4 17.5A @ 2		lels: 342~:	528Vac, 47	7~63Hz (Co	overs 380,	400/415/4	40/460/48	30Vac)				_	
2. Maximum Input current at	3-Phase, 400V models:		9.2A @ 38													
100% load	3-Phase, 480V models:		9.2A @ 38													
3.Power Factor (Typ)					, rated ou	tput powe	er.									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	91	91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		Α	Less than	50A			-	-							-	
CONSTANT VOLTAGE MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				rated out	out voltag	e										
2.Max. Load regulation (*8)																
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	1% of rated output voltage +5mV 75											480	
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C	50PPM/°C	from rat	ed output	voltage, 1	following	30 minute	s warm-u	0.						
6.Temperature stability							following				nt line. loa	d & temp.				
7. Warm-up drift							ge+2mV ov									
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 T	/		Time for o	output vo	Itage to re	cover wit	hin 0.5% c	of its rated	output fo	r a load cl	nange 10~	-90% of ra	ted outpu			
11.Transient response time		mS	10~100%	, Local sei	nse. Less t	han 1mS,	for model	s up to an	d includin	g 100V. 2r	nS, for mo	dels abov	e 100V.			
12.Start up delay		Sec	Less than	5 Sec												
CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				rated out			30	00	00	100	150	200	300	100	500	000
2.Max. Load regulation (*13)				rated out												
3.Ripple r.m.s. @ rated voltage. B.	.W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
			10V~100\				utput curr									
5.Temperature coefficient		PPM/°C	150V~600	0V 70PPI	M/°C from	rated out	tput curre	nt, follow	na 30 min	utes warr	n-up.					
6.Temperature stability												d & tempe	erature.			
			10V~100\	/ model: L	ess than -	⊦/-0.25% c	of rated ou	itput curr	ent over 30) minutes	following	power or	١.			
7. Warm-up drift												power or er on.	1.			
			150V~600	0V: Less th			of rated ou d output o						1.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	150V~600 HE OUTPU	OV: Less th	nan +/-0.1	5% of rate	d output o	current ov	er 30 minu	ites follov	ving powe	er on.	1.			
ANALOG PROGRAMMING AND N 1.Vout voltage programming		FROM T	150V~600 HE OUTPU 0~100%,	0V: Less th JT) 0~5V or 0	nan +/-0.1 ~10V, use	5% of rate r selectab	d output o	current ov	er 30 minu earity: +/-(ites follov	ving powe	er on.	1.			
ANALOG PROGRAMMING AND N 1. Vout voltage programming 2. lout voltage programming (*15		FROM T	150V~600 HE OUTPU 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0	~10V, use ~10V, use	5% of rate r selectab r selectab	le. Accurae	cy and line	er 30 minu earity: +/-(earity: +/-(0.15% of ra	ving powe nted Vout. ted lout.	er on.	1.			
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*13 3. Vout resistor programming	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko	~10V, use ~10V, use ~10V, use hm full sc	5% of rate r selectab r selectab ale, user s	le. Accurae le. Accurae le. Accurae electable.	cy and line	er 30 minu earity: +/-(earity: +/-(and linea	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*13 3. Vout resistor programming (*15 4. lout resistor programming (*15	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko	~10V, use ~10V, use ~10V, use hm full sc	r selectab r selectab ale, user s ale, user s	le. Accuradele. Accuradele electable.	cy and line cy and line Accuracy	earity: +/-(earity: +/-(earity: +/-(and linea and linea	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming (*15 5. Output voltage monitor	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~10V, use	~10V, use ~10V, use ~10V, use hm full sc hm full sc	r selectab r selectab ale, user s ale, user s ale, Accura	le. Accurade. Accurade electable. electable. acy: +/-0.5	cy and line cy and line Accuracy Accuracy % of rated	earity: +/-(earity: +/-(and linea and linea I Vout.	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
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ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA)	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use	~10V, use ~10V, use ~10V, use hm full sc hm full sc er selectab	r selectab r selectab ale, user s ale, user s ale, user s ble. Accura	le. Accuraci le. Accuraci le. Accuraci electable. electable. acy: +/-0.5	cy and lin- cy and lin- Accuracy Accuracy % of rateo	earity: +/-(earity: +/-(and linea and linea I Vout.	0.15% of ra 0.4% of ra rity: +/-0.5 rity: +/-0.5	ated Vout. ted lout. 5% of rate	d Vout.		imum Sin	k Current:	10mA.
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming (*15 5. Output voltage monitor 6. Output current monitor (*15)	5)	FROM T	150V~600 HE OUTPL 0~100%, 0~100%, 0~100%, 0~5V or 0 Power su	JT) 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use	~10V, use ~10V, use ~10V, use hm full sc hm full sc or selectab	r selectab r selectab ale, user s ale, user s ale. Accura	le. Accurar le. Accurar le. Accurar electable. electable. acy: +/-0.5	cy and lincy and lin. Accuracy Accuracy of rateo of rateo	earity: +/-(earity: +/-(and linea and linea I Vout.	0.15% of ra 0.4% of ra rity: +/-0.9 rity: +/-0.9	ving power ated Vout. ted lout. ted of rates to of rates	d Vout.	: 30V, Max		k Current:	10mA.
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*13 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	5) ATED FROM THE OUTPUT	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0	DV: Less the DT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use	~10V, use ~10V, use ~10V, use hm full sc hm full sc er selectab er selectab ut monito en collect	r selectab r selectab r selectab ale, user s ale, user s ole. Accura or. Open co	d output of le. Accurac le. Accurac electable. electable. acy: +/-0.5 acy: +/-0.5 ollector. O de: On. CV	cy and lin- cy and lin- cy and lin- Accuracy Accuracy % of ratec % of ratec	er 30 minuter 30 minut	0.15% of ra 0.4% of ra 0.4% of ra rity: +/-0.5 rity: +/-0.5	ving power ated Vout. ted lout. 5% of rates 6% of rates 6. Maximule: 30V, Ma	d Vout. d lout.	: 30V, Max	t: 10mA.		
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GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS	V	10 20 30 40 50 60 80 100 150 200 300 400 500 600
1. Foldback protection		Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
2.Over-voltage protection (OVP)		Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.
3.Over -voltage programming range	V	0.5~12 1~24 2~36 2~44.1 55-55.125 5~66.15 5~88.2 5~110.25 5~165.37 5~220.5 5~330.75 5~441 5~551.25 5~661.
4. Over-voltage programming accuracy		+/-1% of rated output voltage
5.Output under voltage limit (UVL)		Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.
6.Over temperature protection		Shuts down the output. Auto recovery by autostart mode.
7. Output under voltage limit (UVL)		Prevents adjustment of Vout below limit.
8. Output under voltage protection (UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
FRONT PANEL		
1.Control functions		Multiple options with 2 Encoders
		Vout/lout/Power Limit manual adjust
		OVP/UVL/UVP manual adjust
		Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC
		Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.
		Output ON/OFF. Front Panel Lock.
		Communication Functions - Selection of Baud Rate, Address, IP and communication language.
		Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming
		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, 100% load.
2.Storage temperature		-30~85°C
3.Operating humidity	%	20~90% RH (no condensation).
. ,		
4.Storage humidity	%	10~95% RH (no condensation).
5.Altitude (*17)		Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).
MECHANICAL		
1.Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear
2.Weight	kg	2.7kW/3.4kW - Less than 6.25kg. 5kW - Less than 7.5kg.
3.Dimensions (WxHxD)	mm	W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing).
4.Vibration		MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1
5.Shock		Less than 20G, half sine, 11mSec. Unit is unpacked.
SAFETY/EMC		
1. Applicable standards: Safety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.
1.1. Interface classification		Vout ≤40V Models: Output, J1,J2,J3,J4,J5,J6,J7,J8 (sense) and ,J9 (communication options) are SELV. 60≤ Vout≤ 600V Models: Output, J8 (sense) are hazardous, J1,J2,J3,J4,J5,J6,J7 and J9 (communication options) are SELV
		Vout ≤40V Models: Input - Output (SELV): 4242VDC 1min, Input - Ground: 2835VDC 1min.
		60V≤Vout≤100V Models: Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 850VDC 1min,
1.2 Withstand voltage		Output - Ground: 1500VDC 1min. Input - Ground: 2835VDC 1min.
		100 <vouts600v -="" 1275vdc="" 1min,="" 2500vdc="" 2600vdc="" 4242vdc="" ground:="" ground:<="" input="" models:="" output="" output:="" selv:="" td=""></vouts600v>
	1	
1.2 Insulation resistance		1100Mohm at 250C 700/PH Output to Ground 500VDC
1.3 Insulation resistance		100Mohm at 25°C, 70%RH. Output to Ground 500VDC
2.Conducted emmision		IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A.
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Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

GENESYS™ GSP10kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
1.Rated output voltage(*1)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
3.Rated output power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
IN OT CHARACTERISTICS		•						vers 200/2		100	130	200	300	1 400	300	000
1.Input voltage/freq. 3 phase, 3 wire	e + Ground (*4)							overs 380/		ac)						
Timput voitage/freq. 5 phase, 5 will	e i diodila (4)							vers 380/			ROVac)					
13	3-Phase, 200V models:		35A @ 20			ZOTUC, II	03112 (00	710133007	100/115/1	10/ 100/ 10	oo ruc,					
2. Maximum Input current at	3-Phase, 400V models:		18.4A @ 3													
100% l0du	3-Phase, 480V models:		18.4A @ 3													
3.Power Factor (Typ)	o i ilase, loov illoueisi		_		rated out	put powe	r.									
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													
6.AC line phase imbalance		%	< 5%													
										100	450					
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)					out voltag	1					1					T
3.Ripple and noise (p-p, 20MHz) (*9	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						30 minute			. 11 1	10.				
6.Temperature stability											nt line, load	å & temp.				
7. Warm-up drift	(7.4.6)							er 30 mini			1	_	_	_		_
8.Remote sense compensation/wire	e (* 10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F. III 1 (822)	mS C	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	10~100%	output vo	itage to re	cover with	nın 0.5% c	or its rated	output fo	r a Ioad cl	hange 10~ nS, for mod	90% of rat	ed output	current. (Jutput set	-point:
12.Start up delay		Sec	Less than		15C. LESS (iuii iiii3, l	or models	up to and	a meraum)	g 100V. ZI	113, 101 11100	acia above	1001.			
		Jet	Leess Hidli	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
CONSTANT CURRENT MODE																
1.Max. Line regulation (*7)			0.05% of	rated out	out currer	t.										
2.Max. Load regulation (*13)				rated out	out currer	it.										
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. E	B.W 5Hz~1MHz. (TA25°C)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5.Temperature coefficient		PPM/°C	10V~100	/ 100PF	PM/°C from	n rated ou	tput curre	ent, follow	ring 30 mii	nutes war	rm-up.					
5. remperature coemicient		111WI/ C	150V~60	OV 70PPI	V/°C from	rated out	put curre	nt, followii	ng 30 min	utes warn	n-up.					
6.Temperature stability			0.01% of	rated lout	over 8hrs	. interval f	ollowing :	30 minute:	s warm-up	o. Constar	nt line, load	l & tempe	rature.			
7. Warm-up drift											following					
7. Waim-up unit			150V~60	OV: Less th	an +/-0.15	% of rated	d output c	urrent ove	er 30 minu	ites follow	ving powe	r on.				
ANALOG PROGRAMMING AND MO	ONITORING (ISOI ATED	FROM T	HF OUTP	JT)												
1.Vout voltage programming					~10V use	selectabl	e Accurac	y and line	arity: +/-0	15% of ra	ated Vout					
2.lout voltage programming (*15)								y and line								
3.Vout resistor programming											5% of rated	Vout				
4.lout resistor programming (*15)											5% of rated					
5.Output voltage monitor								%. Of rated		11,117 012	770 01 14160	1001				
6.Output current monitor (*15)								%. Of rate								
			0 37 0. 0	101/ 450	, sereetab		c). 17 015	701 01 14100								
SIGNALS AND CONTROLS (ISOLAT	ED FROM THE OUTPUT															
1. Power supply OK #1 signal											f. Maximun				Current: 1	0mA.
2. CV/CC signal											e: 30V, Max					
3. LOCAL/REMOTE Analog control										,	t. Remote					
4. LOCAL/REMOTE Analog signal											l: Off. Maxii				ınk Currer	nt: 10mA.
5. ENABLE/DISABLE signal											2~30V or o			logic.		
6. INTERLOCK (ILC) control											or short. Lo			71/-		
7. Programmed signals											current 10					
8. TRIGGER IN / TRIGGER OUT signal			NA		zei input		- 0 01/11								υuτ = 5V I	positive
9. DAISY_IN/SO control signal	ls		Maximu edge tri	m low lev	=10us mi	voltage = nimum =	= 0.8V,Mi r.Tf=1.15	nimum hi Maximum	igh level n. Min del	input vo	ltage = 2. een 2 pul	5V, Maxir ses 1ms	num higl	n level in		
	ls		edge tri	gger: tw=	=10us mii	nimum. T	r,Tf=1us I	Maximum	igh level n, Min del	ay betw	Itage = 2. een 2 pul:	5V, Maxir ses 1ms.	num higl	n level in		
	ls		edge tri By electr	gger: tw= cal Voltag	=10us mii e: 0~0.6V	nimum. T /2~30V or	r,Tf=1us / dry conta	Maximum	igh level n, Min del	ay betw	Itage = 2. een 2 pul	5V, Maxir ses 1ms.	num higl	n level in		
10. DAISY_OUT/PS_OK #2 signal	ls		edge tri By electr	gger: tw= cal Voltag	=10us mii e: 0~0.6V	nimum. T	r,Tf=1us / dry conta	Maximum	igh level n, Min del	ay betw	Itage = 2. een 2 pul:	5V, Maxir ses 1ms.	num high	n level inp		
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	ls		edge tri By electri 4~5V=Ol	gger: tw= cal Voltag (, 0V (500c	=10us mii je: 0~0.6V ohm impe	nimum. T /2~30V or dance)=Fa	r,Tf=1us I dry conta ail	Maximum ct.	n, Min del	ay betw	Itage = 2. een 2 pul:	5V, Maxir ses 1ms.	num high	n level inp		
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	ls		edge tri By electri 4~5V=Ol	gger: tw= cal Voltag (, 0V (500d tical GSP u	=10us mii ie: 0~0.6V ohm impe units. For i	nimum. T /2~30V or dance)=Fa	r,Tf=1us I dry conta ail	Maximum	n, Min del	ay betw	Itage = 2. een 2 pul:	5V, Maxir ses 1ms.	num high	n level inp		
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	ls	 	edge tri By electri 4~5V=Ol Two iden Consult v	gger: tw= cal Voltag (, 0V (500c tical GSP u	=10us mii ie: 0~0.6V ohm impe units. For i	nimum. T /2~30V or dance)=Fa	r,Tf=1us I dry conta ail er please	Maximum ct. consult wi	n, Min del	ay betwo	een 2 pul:	ses 1ms.	num high	n level inp		
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	Is	 	edge tri By electri 4~5V=Ol Two iden Consult v Power su	gger: tw= cal Voltag (, 0V (500c tical GSP u vith Factor pplies can	=10us miu je: 0~0.6V phm impe units. For u ry i be conne	nimum. T /2~30V or dance)=Fa more pow	r,Tf=1us <i>I</i> dry conta ail er please o	Maximum ct. consult wi	th Factory	v.	een 2 puls	ses 1ms.				
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	ls		edge tri By electri 4~5V=Oli Two iden Consult v Power su Limits the	gger: tw= cal Voltag C, OV (500d tical GSP u vith Factor pplies can e output p	=10us min le: 0~0.6V ohm impe units. For i ry i be conne	nimum. T /2~30V or dance)=Fa more power ected in Da proggram	r,Tf=1us M dry conta ail er please o aisy chain nmed valu	Maximum ct. consult wi to synchro ie. Prograr	th Factory onize their	r turn-on the comi	een 2 puls	es 1ms.	the front p	panel.		
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ls	 	Two iden Consult v Power su Limits the	gger: tw= cal Voltag c, oV (500d tical GSP u vith Factor pplies can e output p series res	=10us min le: 0~0.6V ohm impe units. For i ry libe conne lower to a istance. R	mimum. T /2~30V or dance)=Fa more powe ected in Da proggram esistance	er please of aisy chain named valurange: 1~	Consult wing to synchronic. Program 1000mΩ. F	th Factory onize their	r turn-on the comi	and turn-o	ff. n ports or thication po	the front ports or the	anel. front pan	el.	
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	Is		Two iden Consult v Power su Limits the Emulates	gger: tw= cal Voltag c, 0V (500c tical GSP u vith Factor pplies can e output p series res mable Out	=10us min pe: 0~0.6V phm impe units. For n ry n be conner power to a istance. R	mimum. T /2~30V or dance)=Fa more powe ected in Da proggram esistance ind Output	er please of aisy chain named valurange: 1~t fall slew	Consult wing to synchronic. Program 1000mΩ. F	th Factory onize their	r turn-on the comi	een 2 puls	ff. n ports or thication po	the front ports or the	anel. front pan	el.	the
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	Is		edge tri By electri 4~5V=Oh Two iden Consult v Power su Limits the Emulates Program commun	gger: tw= cal Voltag K, OV (500c tical GSP u vith Factor pplies can e output p series res mable Out ication po	=10us min le: 0~0.6V shm impe units. For a ry be connection lower to a istance. Ri tput rise a rts or the	nimum. T /2~30V or dance)=Fa more power ected in Da proggram esistance ind Output front pane	r,Tf=1us M dry conta ail er please o aisy chain nmed valu range: 1~ t fall slew el.	Maximum ct. consult wir to synchro ie. Prograr 1000mΩ. F rate. Progr	th Factory onize their mming via Programm ramming r	r turn-on the comming via the	and turn-o munication te commur 001~999.9	off. In ports or the nication por 9 V/mSec.	the front ports or the	anel. front pan c. Progran	el.	
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			edge tri By electri 4~5V=Oh Two iden Consult v Power su Limits the Emulates Program commun	gger: tw= cal Voltag K, OV (500c tical GSP u vith Factor pplies can e output p series res mable Out ication po	=10us min le: 0~0.6V shm impe units. For a ry be connection lower to a istance. Ri tput rise a rts or the	nimum. T /2~30V or dance)=Fa more power ected in Da proggram esistance ind Output front pane	r,Tf=1us M dry conta ail er please o aisy chain nmed valu range: 1~ t fall slew el.	Maximum ct. consult wir to synchro ie. Prograr 1000mΩ. F rate. Progr	th Factory onize their mming via Programm ramming r	r turn-on the comming via the	and turn-o	off. In ports or the nication por 9 V/mSec.	the front ports or the	anel. front pan c. Progran	el.	
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,		edge tri By electri 4~5V=Ol Two iden Consult v Power su Limits the Emulates Programu Profiles o	gger: tw= cal Voltag G, OV (500c tical GSP u vith Factor pplies can e output p series res mable Out ication po f up to 100	=10us min e: 0~0.6V ohm impe units. For a ry be connected bower to a istance. R tput rise a erts or the 0 steps ca	nimum. T /2~30V or dance)=Fa more powe ected in Da proggram esistance i nd Output front pane n be store	er please e aisy chain med valurange: 1~ t fall slew el. d in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-ormunication e communication outline communication and via t	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.
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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 (RES232/485, Optional IEEE (*19)(*2 1.Vout programming accuracy (*15) 2.lout programming accuracy (*15)	(USB, LAN, 20) Interfaces)		edge tris By electri 4~5V=Ol Two iden Consult v Power su Limits th Emulates Program Profiles c 10 0.05% of 0.3% of rs	gger: tw= cal Voltag x, 0V (500c tical GSP to vith Factor pplies can e output p series res mable Out cication po f up to 10 20 rated output ated output ed output e	=10us mine: 0~0.6V phm impe units. For a ry a be conne power to a pistance. R typut rise a prts or the 0 steps ca 30 put voltag ut current	more powerested in Deprogram esistance in double front pane no be store 40	er please e aisy chain med valurange: 1~ t fall slew el. d in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-ormunication e communication outline communication and via t	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (R5232/485, Optional IEEE (*19)f.*2 1. Vout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Vout programming resolution	(USB, LAN, 20) Interfaces)		edge tri By electri 4~5V=Oi Two iden Consult v Power su Limits the Emulates Program commun Profiles of 0.05% of 0.3% of r 0.002% o	gger: tw= cal Voltag x, 0V (500c tical GSP with Facto pplies can e output p series res male Out cation po f up to 100 20 rated output ented output f rated output f rate	=10us mine: 0~0.6V ohm imperunits. For ury units. For ury u be connerower to a sistance. Reput rise a rits or the 0 steps ca 30 out voltagut current tput voltagut current tput voltagut voltagut voltagut voltagut current tput voltagut current cu	more powerested in Day proggram ested in Day proggram esistance in do Output front panen in be store 40 e	er please e aisy chain med valurange: 1~ t fall slew el. d in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-ormunication e communication outline communication and via t	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (RS232/485, Optional IEEE (*19)(*2 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 4.lout programming resolution	(USB, LAN, 20) Interfaces)		edge tri By electri 4~5V=Oli Two iden Consult v Power su Limits the Emulates Program commun Profiles c	gger: tw= cal Voltag C, OV (500c tical GSP C tical GS	=10us mine: 0~0.6V ohm impe units. For it yo be connected as istance. Retput rise a orts or the 0 steps ca 30 oout voltagut current tput voltat tput	more powerected in Day proggram esistance in doubt of the store and output front panen be store 40 e	er please e aisy chain med valurange: 1~ t fall slew el. d in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-ormunication e communication outline communication and via t	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK, RS232/485, Optional IEEE (*19)(*2 1. Vout programming accuracy (*16) 2. Lout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	(USB, LAN, 20) Interfaces)		edge tri By electri 4~5V=Ol Two iden Consult v Power su Limits the Emulates Program commun Profiles o 0.05% of 0.3% of r 0.002% o 0.002% o 0.002% o	gger: tw- cal Voltag c, 0V (500c tical GSP to vith Factor pplies can e output p series res mitable Out cation po f up to 10 20 rated output f rated out r	=10us mine: 0~0.6V ohm imperunits. For ury, when to an istance. Reput rise a mits or the 0 steps ca a step court voltagut current trut voltagut current trut voltagut current trut voltagut current put voltagut current put voltagut current put voltagut current trut voltagut current trut voltagut current trut voltagut current voltagut current voltagut current voltagut current voltagut current voltagut current voltagut voltagu	more powerected in Day proggram esistance in doubt of the store and output front panen be store 40 e	er please e aisy chain med valurange: 1~ t fall slew el. d in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-ormunication e communication outline communication and via t	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.
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10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK, RS232/485, Optional IEEE (*19)(*2 1. Vout programming accuracy (*16) 2. Lout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	(USB, LAN, 20) Interfaces)		edge tri By electri 4~5V=Ol Two iden Consult v Power su Limits the Emulates Program commun Profiles o 0.05% of 0.3% of r 0.002% o 0.002% o 0.002% o	gger: tw- cal Voltag c, 0V (500c tical GSP to vith Factor pplies can e output p series res mitable Out cation po f up to 10 20 rated output f rated out r	=10us mine: 0~0.6V ohm imperunits. For ury, when to an istance. Reput rise a mits or the 0 steps ca a step court voltagut current trut voltagut current trut voltagut current trut voltagut current put voltagut current put voltagut current put voltagut current trut voltagut current trut voltagut current trut voltagut current voltagut current voltagut current voltagut current voltagut current voltagut current voltagut voltagu	more powerected in Day proggram esistance in doubt of the store and output front panen in be store 40 e	r,Tf=1us M dry conta iil er please d aisy chain named valu range: 1~ t fall slew eld in 4 mer	Maximum ct. consult wi to synchro e. Program 1000mΩ. F rate. Program mory cells.	th Factory onize their nming via Programm ramming r Activatio	r turn-on the comming via the range: 0.0	and turn-o municatior ne commur 001~999.9 mand via t 150 0.007%	fff. n ports or thication po	the front ports or the	oanel. front pan c. Progran ports or by	el. nming via r the front	panel.

GENESYS™ GSP15kW SERIES SPECIFICATIONS

OUTPUT RATING	GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	300-51	600-25.5
1.Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	300	600
2.Rated output current (*2)	A	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	51	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15.3	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
INFO CHARACTERISTICS	V	3-Phase, 2							100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 4) ()						
Impac voltage/freq. 5 phase, 5 wife i Ground (4)		3-Phase, 4								OVac)					
3-Phase, 200V mod	els:	52.5A @ 20		.13. 5 12 52	.ovac, 47	03112 (CO	VC13 300/-	100/113/1	10/100/10	ovuc,					
2. Maximum Input current at 3-Phase 400V more		27.6A @ 38													
100% load 3-Phase, 480V mod		27.6A @ 38													
3.Power Factor (Typ)		0.94 @ 200		rated outp	ut 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	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													
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 and noise (p-p, 20M12) (9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C									20	43	00	60	80	100
6.Temperature stability		0.01% of ra								tling load	l f. tomp				
7. Warm-up drift		Less than									i & temp.				
8.Remote sense compensation/wire (*10)	V	Less than 1	2	sted outp	ut voitage 5	5 ±2mv ove	5	5	ing powe	r on.	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
9.up-prog. Response time (*11) 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
NO IOau (12)	1113														
11.Transient response time	mS	Time for o 10~100%,	Local sens	e. Less th	an 1mS. fo	or models	up to and	includina	100V. 2m	S, for mod	lels above	100V.	c current.	oatput se	t-point:
12Start up delay	Sec	Less than 2			,		,								
	_									45					
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 r													
2.Max. Load regulation (*13)		0.08% of r													
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (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 2	5°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						ing 30 mir							
		150V~600													
6.Temperature stability		0.01% of ra													
7. Warm-up drift		10V~100V													
		150V~600	v: Less tha	in +/-0.15%	o or rated	output cu	arrent ove	r 30 minu	tes follow	ing power	on.				
ANALOG PROGRAMMING AND MONITORING (ISOL	TED FROM	HE OUTPU	T)												
1.Vout voltage programming		0~100%, 0	~5V or 0~	10V, user :	electable	. Accurac	y and line	arity: +/-0.	.15% of rat	ted Vout.					
2.lout voltage programming (*15)		0~100%, 0	~5V or 0~	10V, user	electable	. Accurac	y and line	arity: +/-0.	.4% of rate	ed lout.					
3.Vout resistor programming		0~100%, 0	~5/10Koh	m full sca	e, user se	lectable.	Accuracy a	and lineari	ty: +/-0.59	% of rated	Vout.				
4.lout resistor programming (*15)		0~100%, 0	~5/10Koh	m full sca	e, user se	lectable.	Accuracy a	and lineari	ty: +/-0.59	% of rated	lout.				
5.Output voltage monitor (*23)		0~5V or 0	~10V, user	selectable	e. Accurac	y: +/-0.5%	of rated	Vout.							
6.Output current monitor (*15) (*23)		0~5V or 0	~10V, user	selectable	e. Accurac	y: +/-0.5%	6. of rated	lout.							
SIGNALS AND CONTROLS (ISOLATED FROM THE OU	TPLIT)														
1. Power supply OK #1 signal		Power sup	ply outpu	t monitor	Open col	lector O	Itput On-	On, Outpu	t Off· Off	Maximum	Voltage:	30V Mavi	mum Sink	Current	10mA
2. CV/CC signal		CV/CC Mo													
3. LOCAL/REMOTE Analog control		Enable/Di												/ or onen	
4. LOCAL/REMOTE Analog signal		analog pro		<u> </u>											
5. ENABLE/DISABLE Signal		Enable/Di												20110	
6. INTERLOCK (ILC) control		Enable/Di													
7. Programmed signals		Two open													
-													/	1.1 1	e trigaer:
TOLCOTO IN ATDICCED CLIT :		Maximum	low level	input volt	age = 0.8	/,Minimur							ut = 5V po	sitive eda	
8. TRIGGER IN / TRIGGER OUT signals		Maximum tw=10us n	low level ninimum.	input volt Tr,Tf=1us <i>l</i>	age = 0.8\ //aximum,	/,Minimur , Min dela	m high lev	el input v	oltage = 2				ut = 5V po	sitive edg	
9. DAISY_IN/SO control signal		tw=10us n By electric	ninimum. al Voltage	Tr,Tf=1us <i>l</i> :: 0~0.6V/2	/laximum, 2~30V or c	, Min dela Iry contac	m high lev y betweer	el input v	oltage = 2				ut = 5V po	sitive edg	
		tw=10us n	ninimum. al Voltage	Tr,Tf=1us <i>l</i> :: 0~0.6V/2	/laximum, 2~30V or c	, Min dela Iry contac	m high lev y betweer	el input v	oltage = 2				ut = 5V po	sitive edg	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		tw=10us n By electric	ninimum. al Voltage	Tr,Tf=1us <i>l</i> :: 0~0.6V/2	/laximum, 2~30V or c	, Min dela Iry contac	m high lev y betweer	el input v	oltage = 2				ut = 5V po	sitive edg	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		tw=10us n By electric 4~5V=OK,	ninimum. al Voltage 0V (500ol	Tr,Tf=1us <i>l</i> :: 0~0.6V/2 nm imped	Maximum, 2~30V or c ance)=Fai	, Min dela Iry contac	m high lev y between tt.	rel input von 2 pulses	oltage = 2 1ms.				ut = 5V po	sitive edg	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation		tw=10us n By electric 4~5V=OK, Two identi	ninimum. al Voltage 0V (500ol	Tr,Tf=1us N :: 0~0.6V/2 nm imped nits. For m	Maximum, 2~30V or c ance)=Fai	, Min dela Iry contac	m high lev y between tt.	rel input von 2 pulses	oltage = 2 1ms.				ut = 5V po	sitive edg	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		tw=10us n By electric 4~5V=OK, Two identi Consult w	ninimum. al Voltage OV (500ol ical GSP ui ith Factory	Tr,Tf=1us N :: 0~0.6V/2 nm imped nits. For m	Aaximum, 2~30V or c ance)=Fai ore powe	, Min dela dry contac il r please c	m high lev y between ct.	rel input vo n 2 pulses ch Factory.	oltage = 2 1ms.	.5V, Maxin	num high		ut = 5V po	sitive edg	
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup	ninimum. al Voltage OV (500ol ical GSP unith Factory plies can	Tr,Tf=1us N e: 0~0.6V/2 nm imped nits. For m / be connec	Aaximum, 2~30V or c ance)=Fai ore powe	, Min dela dry contac il r please c	m high lev y between t. onsult wit	rel input von 2 pulses The Factory.	oltage = 2 1ms.	.5V, Maxin	num high	level inpu		sitive edg	
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the	ninimum. al Voltage 0V (500ol ical GSP ui ith Factory plies can l output po	Tr,Tf=1us N e: 0~0.6V/2 nm imped nits. For m / be connectour to a p	Aaximum, 2~30V or co ance)=Fai ore powe ted in Dai	, Min dela dry contac il r please c isy chain t med value	m high lev y between ct. onsult wit co synchro e. Progran	rel input von 2 pulses th Factory. nnize their	oltage = 2 1ms. turn-on a the comm	.5V, Maxin	num high	level inpu	panel.		
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the Emulates	ninimum. cal Voltage OV (500ol cal GSP un ith Factory pplies can l output po series resis	Tr,Tf=1us N e: 0~0.6V/2 nm imped nits. For m / be connec ower to a p	Maximum, 2~30V or co ance)=Fai ore powe ted in Dai proggrams sistance ra	, Min dela dry contac il r please c isy chain t med value ange: 1~1	m high lev y between ct. onsult with to synchroner. Program 000mΩ. P	rel input von 2 pulses th Factory. nnize their nming via	oltage = 2 1ms. turn-on a the comming via the	nd turn-ol	ff. ports or t	the front ports or the	oanel.	el.	the
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the	ical GSP unith Factory plies can loutput poseries resistable Output potentials	Tr,Tf=1us N e: 0~0.6V/2 nm imped hits. For m / be connectioner to a particular	Maximum, 2~30V or cance)=Fai ore powe ted in Dai proggrams sistance rad d Output	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r.	m high lev y between ct. onsult with to synchroner. Program 000mΩ. P	rel input von 2 pulses th Factory. nnize their nming via	oltage = 2 1ms. turn-on a the comming via the	nd turn-ol	ff. ports or t	the front ports or the	oanel.	el.	the
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the Emulates Programn	ical GSP unith Factory plies can loutput poseries resistable Output portation por	Tr,Tf=1us N :: 0~0.6V/2 nm imped nits. For m / be connect ower to a particular to a part	Aaximum, 2~30V or c ance)=Fai ore powe ted in Dai oroggram sistance ra d Output ont pane	, Min dela Iry contac I r please c isy chain t med value ange: 1~1 fall slew r	m high lev y between tt. onsult wit o synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. rinize their nming via drogrammi amming ri	turn-on a the comming via the ange: 0.00	nd turn-ol nunication commun 001~999.99	onum high ff. ports or t ication pc 9 V/mSec.	the front ports or the	oanel. e front pan	el. nming via	
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	 	tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the Emulates s Programm communic	ninimum. cal Voltage 0V (500ol ical GSP un ith Factory plies can l output po series resis able Outp cation por up to 100	Tr,Tf=1us N :: 0~0.6V/Z nm imped iits. For m / be connec wwer to a p stance. Re: but rise an ts or the fi	Aaximum, 2~30V or c ance)=Fai ore powe ted in Dai oroggrams sistance ra d Output ont panel be stored	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
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		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the Emulates s Programm communic	ical GSP unith Factory plies can loutput poseries resistable Output portation por	Tr,Tf=1us N :: 0~0.6V/2 nm imped nits. For m / be connect ower to a particular to a part	Aaximum, 2~30V or c ance)=Fai ore powe ted in Dai oroggram sistance ra d Output ont pane	, Min dela Iry contac I r please c isy chain t med value ange: 1~1 fall slew r	m high lev y between tt. onsult wit o synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. rinize their nming via drogrammi amming ri	turn-on a the comming via the ange: 0.00	nd turn-ol nunication commun 001~999.99	onum high ff. ports or t ication pc 9 V/mSec.	the front ports or the	oanel. e front pan	el. nming via	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	 	tw=10us n By electric 4~5V=OK, Two ident Consult w Power sup Limits the Emulates s Programm communic Profiles of	ical GSP unith Factory plies can loutput poseries resistable Output por up to 100 20	Tr,Tf=1us I :: 0~0.6V/2 nm imped hits. For m / be connec ower to a p stance. Re- out rise an ts or the fi steps can	Aaximum, 2~30V or c ance)=Fai ore powe ted in Dai oroggrams sistance ra d Output ont pane be stored	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
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9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)		tw=10us n By electric 4~5V=OK, Two identi Consult w Power sup Limits the Emulates s Programm communic Profiles of 10 0.05% of ra 0.3% of ra	ininimum. ial Voltage 0V (500ol ical GSP ur ith Factory pplies can l output pc series resis hable Outputon por up to 100 20 ated output ated outpur rated outpur	Tr,Tf=1us II: 0~0.6V/2nm imped mits. For m / / / / / / / / / / / / /	Aaximum, ~30V or c ance)=Fai ore powe ted in Dai oroggramsistance ra d Output ont pane be stored 40	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution		tw=10us n By electric 4~5V=OK, Two ident: Consult w Power sup Limits the Emulates: Programmin communic Profiles of 10 0.05% of r 0.03% of r 0.002% of 0.002% of	ininimum. In Voltage OV (5000l In I	Tr,Tf=1us N :: 0~0.6V/2 nm imped nits. For m / / / / / / / / / / / / / / / / / / /	Aaximum, ~30V or c ance)=Fai ore powe ted in Dai oroggram sistance r d Output ont panel be stored 40	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Vout programming resolution		tw=10us n By electric 4~5V=OK, Two ident: Consult w Power sup Limits the Emulates: Programm communic Profiles of 10 0.05% of ra 0.002% of or	ical GSP unith Factory ical GSP unith Factory pplies can loutput poseries resisable Outparation por up to 100 20 ated output ed output ed output rated rate	Tr.,Tf=lus II r: 0~0.6V/Z mm imped mits. For m / be connect ower to a p stance. Re- out rise an st or the fi steps can 30 ut voltage t current out voltage out current ut voltage out current ut voltage	Aaximum, ~30V or c ance)=Fai ore powe ted in Dai oroggram sistance r d Output ont panel be stored 40	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy		tw=10us n By electric 4~5V=OK, Two ident: Consult w Power sup Limits the Emulates: Programm communic Profiles of 10 0.05% of ra 0.002% of 0.002% of 0.002% of 0.005% of ra	ical GSP unith Factory ical GSP unith Factory pplies can loutput poseries resisable Outparation por up to 100 20 ated output ed output ed output rated rate	Tr,Tf=1us N :: 0~0.6V/Z mm imped mits. For m / be connect over to a p stance. Resout rise an ste or the fi steps can 30 ut voltage t current but voltage t current ut voltage t current ut voltage t current	Aaximum, ~30V or c ance)=Fai ore powe ted in Dai oroggram sistance r d Output ont panel be stored 40	, Min dela dry contac il r please c isy chain t med value ange: 1~1 fall slew r l.	m high lev y between ct. onsult wit co synchro e. Progran 000mΩ. P ate. Progr	rel input vin 2 pulses th Factory. third Factory. third Factory. third Factory. third Factory. third Factory. Activation	turn-on a the comming via the ange: 0.00	nd turn-ol nunication e commun 101~99.99	ff. ports or t ication pc 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Prograr ports or b	iel. nming via y the fron	t panel.
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy 6.lout readback accuracy (*15)	V	tw=10us n By electric 4~5V=OK, Two ident Consult w Power sup Limits the Emulates: Programm communic Profiles of 0.05% of ra 0.002% of 0.002% of 0.05% of ra 0.2% of ra	ininum al Voltage OV (500ol ical GSP un ith Factory pplies can output po series resis hable Outp traction por up to 100 20 ated output rated outp rated output rated output ated output ated output ded output d	Tr,Tf=1us N :: 0~0.6V/Z mm imped mits. For m / be connect over to a p stance. Resout rise an ste or the fi steps can 30 ut voltage t current but voltage t current ut voltage t current ut voltage t current	Aaximum, 2~30V or cance)=Fai ore powe ited in Dai oroggram isistance rad Output ont panel be stored 40	, Min dela dry contaci il r please c isy chain t med value ange: 1~1 fall slew r i.	m high levy between the consult with the	ch Factory. ch Factory. chize their ming via rrogrammi amming r. Activatior	turn-on a the comming via the ange: 0.00 h by comm	nd turn-oi nunication e commun 01~999.99 nand via th	ff. ports or to ication po y/mSec. ne commu	the front ports or the or A/mSe unication	panel. front pan c. Prograr ports or by	iel. nming via y the fron	600

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150		200	300	400	500	600
			Output sl	ut-down	when no	wer sunn	ly changes	mode fro	m CV or F	Power Lin	nit to CC r	mode	or from	CC or Po	wer I imi	t to CV mod	de
1.Foldback protection			User pres	etable. Re	set by AC	input red	ycle in aut	ostart mo	de, by Po	wer Swit	ch, by OU	TPUT	button	, by rear p	oanel or	by commur	nication.
2.Over-voltage protection (OVP)			Output sl	nut-down			recycle in										
3.Over -voltage programming ra		V	0.5~12				5~55.125	5~66.15	5~88.2	5~110.2	25 5~165.	.37 5~	~220.5	5~330.75	5~441	5~551.25	5~661.5
4. Over-voltage programming ac				ated outp													
5.Output under voltage limit (UV	'L)								n analog	program	iming. Pr	eset b	y front	panel or	commun	ication por	t.
6.Over temperature protection 7. Output under voltage limit (UV	//)					o recovery t below lir	by autost	art mode.									
7. Output under vortage minit (ov	/L)								Off 4				D	-+ h A.C.:			
8. Output under voltage protecti	ion (UVP)		mode, by	Power Sv	ritch, by (DUTPUT b	utton, by r	ear panel	or by con	g under v nmunicat	ion.	onaitio	on. Kes	et by AC I	nput rec	ycle in auto	start
FRONT PANEL																	
1.Control functions			Multiple														
						ual adjust											
			OVP/UVL														
							Foldback, (of LAN, IEE			D O+!-			_4!!				
			Output O	N/OFF. Fr	ont Panel	Lock.								nterrace.			
							of Baud R										
							Voltage/re					progr	ammin	ıg			
2 Disaless							of Voltage			ig 5V/10V							
2.Display							output ve										
3.Front Panel Buttons Indications	ς		OUTPUT	ON ALAR	M PRFVIE	W FINE (COMMUNIC	CATION P	ROTECTION	ON CONF	IGURATIO	ON SY	STFM ⁴	SEQUENC	FR		
4. Front Panel Display Indications			Voltage, 0	Current, P	ower, CV,	CC, CP, Ex		age, Exter	nal Curre	nt, Addre	ess, LFP, A					//I, Remote	
ENVIRONMENTAL CONDITIONS																	
1.Operating temperature		T	0~50°C, 1	000/ load							_						
2.Storage temperature			-30~85°C	00% IOau													
3.Operating humidity		%	20~90%1	NII /													
, ,		%															
4.Storage humidity		90		H (no cor				4: 20/ /1	00 T-		196/100		200	O N		40000ft (12000)
5.Altitude (*17)			Operating	g: 1000011	(3000111),	, output ci	irrent dera	iung 2%/1	JUILIOLIA	derating	J I C/100	III abo	ve 200	UIII. NOII C	peratin	g: 40000ft (12000111).
MECHANICAL																	
1.Cooling					oy interna	al fans. Air	flow direc	tion: from	Front pa	nel to po	wer supp	ly rea	r				
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	11.5 (With 10 (Includi	out busba ing busbai	rs and bush s and busb	oars cover), oars cover,	and strain	relief) (R	efer to Ou	ıtline d	drawing	g).			
2.Weight	GSP 15kW	kg	Less than	23.5kg.													
3.Dimensions (WxHxD)	GSP 15kW	mm					usbars and usbars and			strain rel	ief) (Refe	r to Ou	ıtline d	rawing).			
4.Vibration			MIL-810G	, method	514.6, Pro	ocedure I,	test condi	tion Anne	C - 2.1.3	.1							
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit	is unpacke	d.									
SAFETY/EMC																	
1.Applicable standards:	Safety		UI 61010-	1 CSA22	2 No I 610	10-1 IFCI	61010-1, EN	VI 61010-1									
1.1. Interface classification	Juicty		Vout ≤40	V Models:	Output,	J1,J2,J3,J4	,J5,J6,J7,J8 sense) are	s (sense) ar	nd ,J9 (co						ancl are	ELV	
	1													aon optic	nis) die S	·LLV	
1.2 Withstand voltage			60V≤Vou	t≤100V N	/lodels: I	nput - Ou	SELV): 42- tput: 4242 put - Gro	VDC 1mi	n, Input	- SELV: 4				out - SELV	/: 850VI	OC 1min,	
1.2 withstand voitage			100 <vou< td=""><td>t≤600V N</td><td>/lodels: I</td><td>nput - Ou</td><td></td><td>2VDC 1mi</td><td>n. Input</td><td>- SELV: 4</td><td>1242VD0</td><td>C 1mir</td><td>n, Outp</td><td>out - SEL</td><td>V: 1275\</td><td>/DC 1min,</td><td></td></vou<>	t≤600V N	/lodels: I	nput - Ou		2VDC 1mi	n. Input	- SELV: 4	1242VD0	C 1mir	n, Outp	out - SEL	V: 1275\	/DC 1min,	
1.3 Insulation resistance							%RH. Outp										
2.Conducted emmission							t, Annex H				CI-A						
3.Radiated emission							t, Annex H					1-Δ					
4. EMC compliance	EMC(*18)					vironmen		table 11.3	ariu 114, I	CCFail	13-74, VCC	.i-A.					
4. LIVIC COMPHANCE	LIVIC("10)		LIEC/EIND I	204-3 ING	ustridi en	virorimen	ι										

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

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

 *NOTES:

 *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.

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

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

 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase *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 Blf filter inrush current, Iess than 0.2m Sec.

 *7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V models: 342~460Vac, 3-Phase 480V models: 342~528Vac. Constant load.

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

 *9: For 10V-150V models: Measured with JEITA RC-913IC (1:1) probe. For 300-600V models: Measured with 100:1 probe.

 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.

 *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

 *12: From 90% to 10% of Rated Output Voltage, constant input voltage.

 *13: For load voltage change, equal to the unit voltage rating, constant input voltage.

 *14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.

 *16: Measured at the sensing point.

 *17: For 10V model Ta derating 2°C/100m."

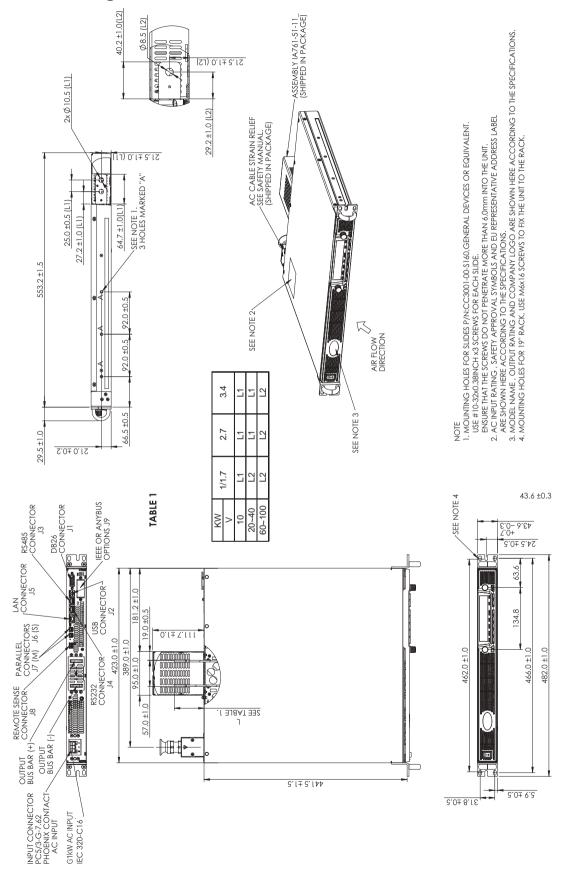
 *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

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

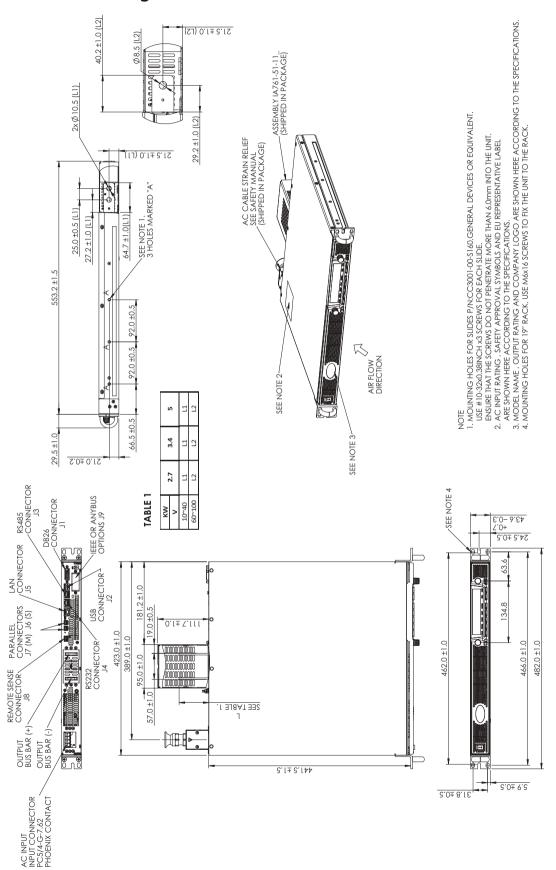
 *20: GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.

 *21: For 10V model only

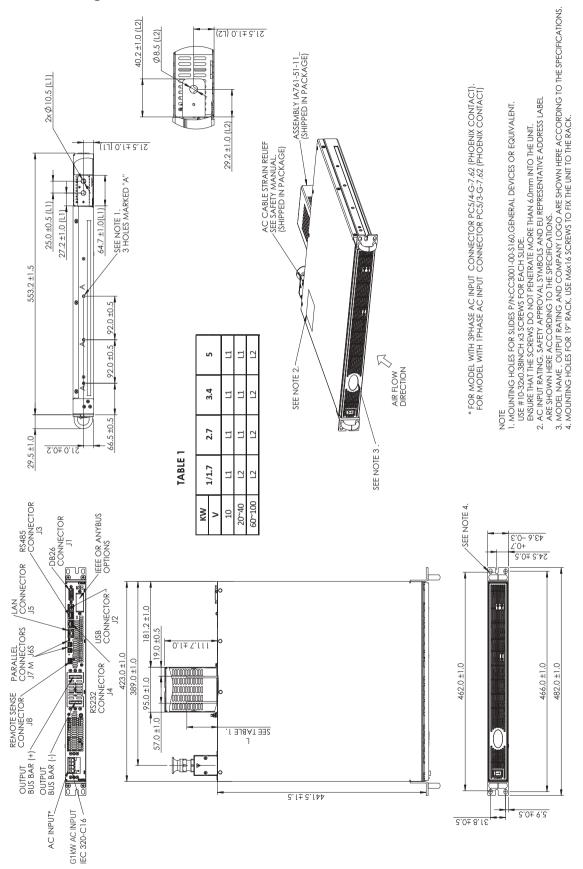
Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



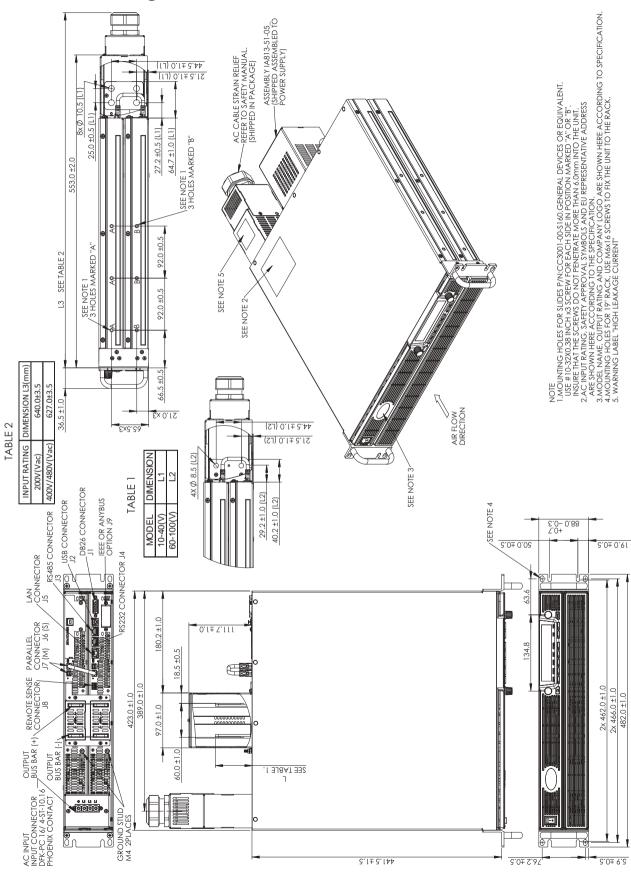
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



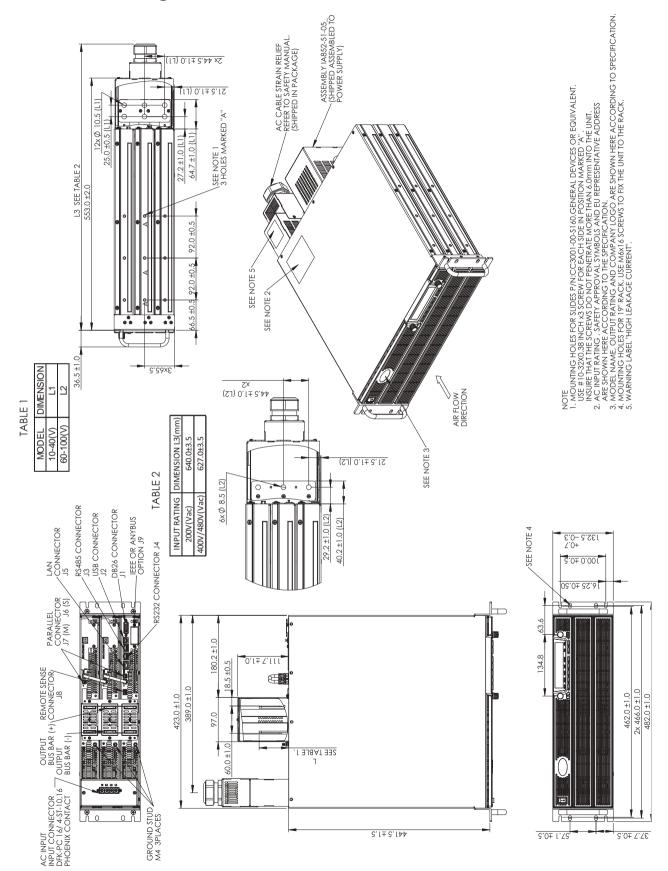
Outline Drawing GENESYS™ GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



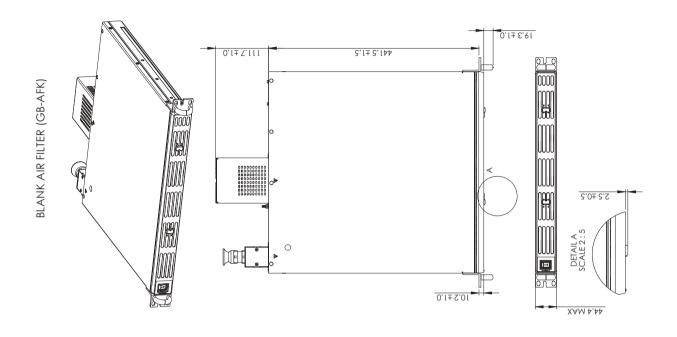
Outline Drawing GENESYS™ GSP10kW

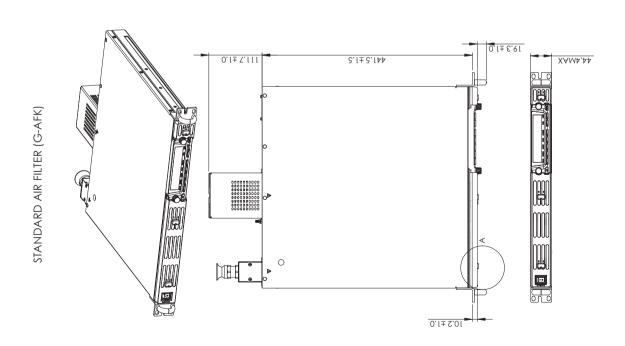


Outline Drawing GENESYS™ GSP15kW



Outline Drawing GENESYS™ Air Filter Kit





Front Panel Air Filter Assembly

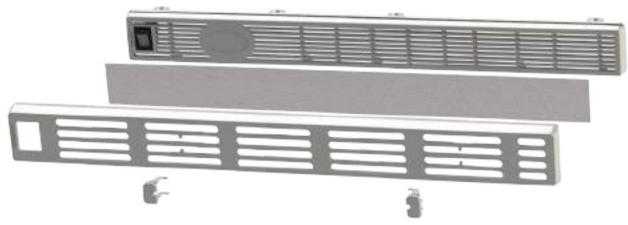
Front panel dust cover is available for dusty air environment applications

Dust cover is removable snap-in filter (for easy maintenance)

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



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



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

Accessories

1. Front Panel dust filter / Field installation kit:

Technical Specifications: Unit with Air Filter Assembly Installed

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

Filter Foam Technical Specifications

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

Air Filter Assembly Components

Standard Unit (P/N: G-AFK)

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

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

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

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Series Rev. H





GLOBAL NETWORK