



GENESYS G Series

Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

! Advanced Features Built-In!

- Arbitrary Waveform Generator with Auto-Trigger Capability
 - Programmable Slew Rate Control (Vout/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





Trusted • Innovative • Reliable



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

Features include:

- Leading DC Programmable power density (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs:
 - G1kW/1.7kW: 1ø (85~265VAC)
 - G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
 - G5kW / G7.5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows[™]/CVI, LabVIEW[™], and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

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 twelve (12) 7.5kW units. Each unit is 1U with zero space between them (zero stack).

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

G1kW-7.5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- 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.
- 13. G+ 5kW 1000V and 1.500V has the same housing as 7.5kW

G7.5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (L) 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. Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 8. G7.5kW: AC Input: 480VAC, Three Phase, 50/60 Hz. (Model shown)
 AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief.
 AC Input: 208VAC, Three Phase, 50/60 Hz.
 AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

GSP10kW Front Panel Description



- 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



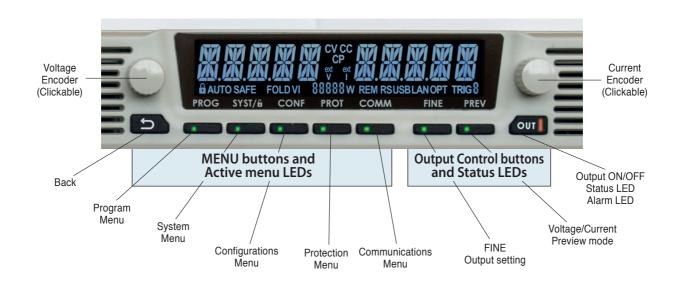
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

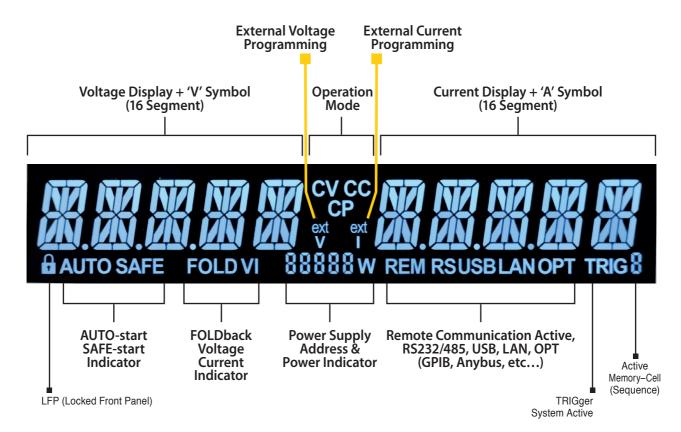


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators





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

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

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

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

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

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

Order P/N: G/P - 6U

Series operation

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

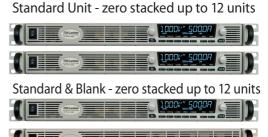
Multi-Drop Remote Programming via Communication Interface

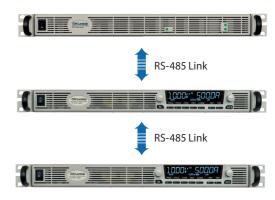
Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

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









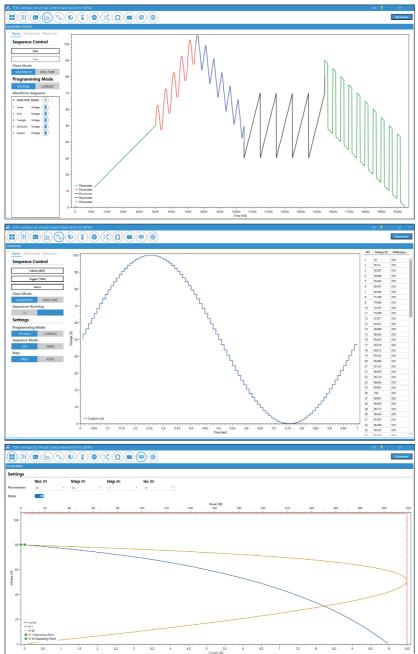
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Graphical User Interface

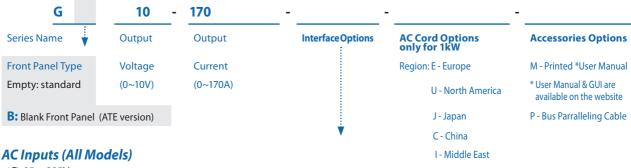
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

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

GUI Waveform Profile Generator



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



1Ø, 85 ~ 265Vac

Interface Options (Factory installed)	P/N
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)	IEEE
Modbus-TCP	MDBS
EtherCAT	ECAT
Isolated Analog Current Program/Monitor Interface (4mA-20mA with 600V isolation)	IS420

Models 1kW

Model	Voltage (V)	Current (A)	Power (W)	Model
G10-100	0~10V	0~100	1000	G80-12.5
G20-50	0~20V	0~50	1000	G100-10
G30-34	0~30V	0~34	1020	G150-7
G40-25	0~40V	0~25	1000	G300-3.
G60-17	0~60V	0~17	1020	G600-1.

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

Models 1.7kW

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

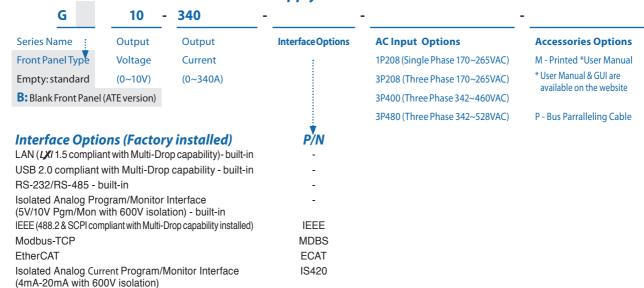
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Connectors	Cables	P/N		
2013595-1 (TYCO)	Shielded L=11cm	G/P		

4. User Manual

Printed User Manual	G/M

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



Models G2.7kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model
G10-265	0~10V	0~265	2650	G80-34
G20-135	0~20V	0~135	2700	G100-2
G30-90	0~30V	0~90	2700	G150-1
G40-68	0~40V	0~68	2720	G300-9
G60-45	0~60V	0~45	2700	G600-

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 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 **G**ENESYS[™] power supplies.

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

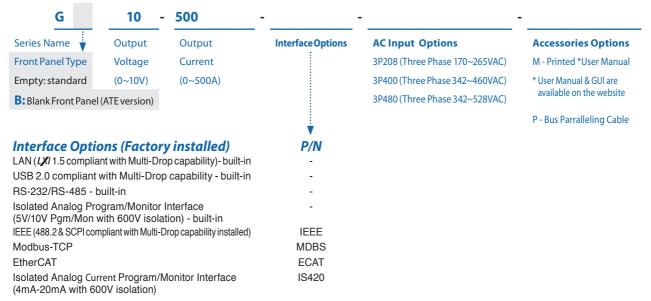
3. Bus Paralleling cable

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

4. User Manual

Printed User Manual	G/M	

How to order G5kW - Power Supply Identification / Accessories



Models 5kW

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

Accessories

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

1. Serial Communication cable

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

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

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

Daisy-chain up to 31 **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

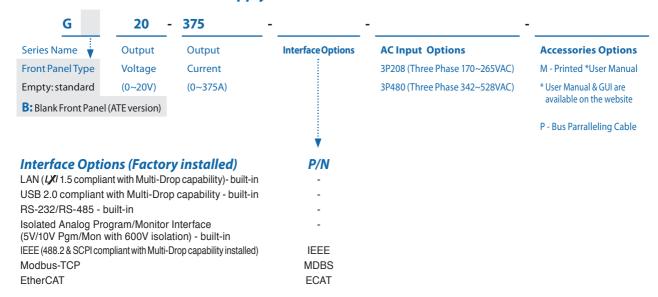
5. Parallel Kit: 20kW/30kW

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)

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How to order G7.5kW - Power Supply Identification / Accessories



Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)
G20-375	0~20V	0~375	7500
G30-250	0~30V	0~250	7500
G40-188	0~40V	0~188	7520
G60-125	0~60V	0~125	7500
G80-94	0~80V	0~94	7500
G100-75	0~100V	0~75	7500

Model	Voltage (VDC)	Current (A)	Power (W)
G150-50	0~150V	0~50	7500
G200-37.5	0~200V	0~37.5	7500
G300-25	0~300V	0~25	7500
G600-12.5	0~600V	0~12.5	7500
G1000-7.5	0~1000V	0~7.5	7500
G1500-5	0~1500V	0~5	7500

Accessories

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

1. Serial Communication cable

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

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

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

Daisy-chain up to 31 **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

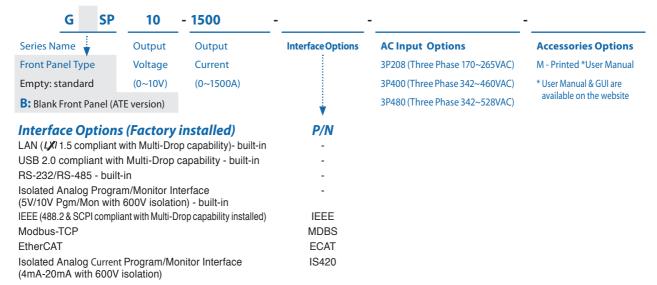
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Printed User Manual	G/M

5. Parallel Kit: 30kW/45kW

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

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

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



Models GSP 10kW

Model	Voltage
GSP100-100	0~1
GSP150-68	0~1
GSP200-50	0~2
GSP300-34	0~3
GSP400-26	0~4
GSP500-20	0~5
GSP600-17	0~6
G.	SP300-34 SP400-26 SP500-20

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
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TDK-Lambda

GENESYS™ Family Output Voltage and Current

Models Series				GSP/GBSP (Scalable Power)					
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	5kW - HV	7.5kW	10kW	15kW
Voltage Range				Cı	ırrent Ran	ge (A)			
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A		-	0~1000A	0~1500A
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A		0~375A	0~500A	0~750A
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A		0~250A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A		0~188A	0~250A	0~375A
0-50V	-	-	-	-	0~100A		-	0~200A	0~300A
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A		0~125A	0~170A	0~255A
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A		0~94A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A		0~75A	0~100A	0~150A
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A		0~50A	0~68A	0~102A
0-200V	-	-	-	-	0~25A		0~37.5A	0~50A	0~75A
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A		0~25A	0~34A	0~51A
0-400V	-	-	-	-	0~13A		-	0~26A	0~39A
0-500V	-	-	-	-	0~10A		-	0~20A	0~30A
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A		0~12.5A	0~17A	0~25.5A
0-1000V	-	-	-	-		0~0.5A	0~7.5A	-	-
0-1500V	-	-	-	-		0~3.4A	0~5A	-	-
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	8.5/18.7	15.5/34.2	23.5/51.8

AC Input Range

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

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

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



Models 1kW

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

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			00	00	100	150	300	000
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5	Ontinuous, 47	~03112, 3111gle	riiase						
	_		- 000 0 200								
3.Power Factor (Typ)			c 0.98 @ 200			07/00	07/00	00/00	00/00	00/00	00/00
4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	Α	Less than 50A	4								
CONSTANT VOLTAGE MODE	٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate	d output volta	age							
2.Max. Load regulation (*7)			d output volta								
3 1	_		_		60	- 60	75	75	75	120	500
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-u	0.				
6.Temperature stability		0.01% of rate	d Vout over 8h	nrs interval fol	lowing 30 min	utes warm-u	p. Constant lin	e, load & temp	0.		
7. Warm-up drift		Less than 0.0	1% of rated ou	itput voltage-	-2mV over 30 r	minutes follow	ving 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
10.Down-prog.response time:	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for outr	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	e 10~90% of i	rated output c	urrent. Outpu	set-point:
11. It ansient response time	ıns	10~100%, Lo	cal sense. Less	than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	ec								
13.Hold-up time	mS		,		20	ms typical, rat	ted output po	wer			
						1	1				
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 curre	ent. +2mA							
2.Max. Load regulation (*9)		0.02% of rate	d output curre	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
Simple ministerated voltage: Sitt STIZ miniz: (15)							nutes warm-u				
5.Temperature coefficient	PPM/°C										
							utes warm-up				
6.Temperature stability							p. Constant lin				
7. Warm-up drift		10V~100V mc	odel: Less than	+/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power o	n.		
7. Waith-up difft		150V~600V: L	ess than +/-0.	.15% of rated o	output current	over 30 minu	ites following	power on.			
											1
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM I										
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	0.15% of rated	Vout.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	0.4% of rated lo	out.			
3.Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	rity: +/-0.5% of	frated Vout.			
4.lout resistor programming (*14)		_					rity: +/-0.5% of				
5.Output voltage monitor					r: +/-0.5% of ra			racca roat.			
-	_										
6.Output current monitor (*14)		0~5V OF U~10	v, user selecta	able. Accuracy	v: +/-0.5% of ra	itea iout.					
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. Outp	ut Off: Off. Ma:	ximum Voltag	e: 30V, Maximi	um Sink Curre	nt: 10mA.
2. CV/CC signal									ink Current: 10		
3									or short. Loca		
3. LOCAL/REMOTE Analog control											
4. LOCAL/REMOTE Analog signal									ltage: 30V, Max		rrent: 10mA.
5. ENABLE/DISABLE signal		Enable/Disab	le PS output b	oy electrical si	gnal or dry co	ntact. 0~0.6V	or short, 2~30	V or open. Use	er selectable lo	ogic.	
6. INTERLOCK (ILC) control		Enable/Disab	le PS output b	oy electrical si	gnal or dry co	ntact. Remote	e: 0~0.6V or sh	ort. Local: 2~3	80V or open.		
7. Programmed signals		Two open dra	ain programm	able signals. N	Maximum volt	age 25V, Maxi	mum sink curi	ent 100mA (S	hunted by 27V	zener)	
									ximum high l		5V positive
8. TRIGGER IN / TRIGGER OUT signals							lay between			put =	
9. DAISY_IN/SO control signal			Voltage: 0~0.6								
10. DAISY_OUT/PS_OK #2 signal		+	(500ohm imp								
		. 501,00	,								
FUNCTIONS AND FEATURES											
1. Parallel operation		Possible. Up t	to 4 identical ι	units in Master	r/Slave mode.	Refer to instru	uction manual				
2. Series operation		Possible. Two	identical unit	ts. Refer to ins	truction manu	ıal.					
3. Daisy chain							r turn-on and 1	turn-off			
4. Constant power control									or the front par	201	
5. Output resistance control									ports or the fr		
6. Slew rate control						rogramming i	range: 0.0001~	-999.99 V/mSe	ec. or A/mSec.	Programming	via the
			on ports or th			alla A et et	- h	4.3-71			
7. Arbitrary waveforms		Profiles of up	to 100 steps o	an be stored	ın 4 memory c	eiis. Activatio	n by comman	a via the comi	munication po	rts or by the fr	ont panel.
PROGRAMMING AND READBACK (USB, LAN,	l										
RS232/485, Optional IEEE (*16) Interfaces)	V	10	20	30	40	60	80	100	150	300	600
1.Vout programming accuracy (*15)		0.05% of rate	d output volta	age							
2.lout programming accuracy (*14)					ted output cui	rrent		-			
3.Vout programming accuracy (14)			ed output vol								
	_										
4.lout programming resolution			ed output cur								
5.Vout readback accuracy		0.05% of rate	ed output volt	age							
6.lout readback accuracy (*14)		0.2% of rated	output curre	nt					0.25% of rate	d output curr	ent
7.Vout readback resolution (of rated output voltage)	%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
	_		0.003%	0.004%	0.005%	0.007%	0.009%	0.011%	0.015%	0.004%	0.007`%
8.lout readback resolution (of rated output current))	96	0.011%									

GENESYS[™] 1.7kW SERIES SPECIFICATIONS

		G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		Α	170	85	56	42	28	21	17	11.2	5.6	2.8
3.Rated output power		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100	% load (100/200)	Α	20/10									
3.Power Factor (Typ)	(*10)				Vac, rated out		07/00	07/00	00/00	00/00	00/00	00/00
4.Efficiency at 100 Vac/200Vac, ra 5.Inrush current (*5)	tea output (* 19)	% A	86/88 Less than 50A	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)				d output volta	-							
2.Max. Load regulation (*7)				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	8	20	100
5.Temperature coefficient		_			ut voltage, fol				1 10:			
6.Temperature stability					hrs interval fol).		
7. Warm-up drift					utput voltage+					_	_	
8.Remote sense compensation/w	rire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F III 1/742)	mS	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time:	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time		mS	10~100%. Lo	out voitage to cal sense. Les	recover within than 1mS, for	n 0.5% of its ra models up to	ted output for and including	r a Ioad chang i 100V. 2mS. fo	e 10~90% of r or models abo	ated output ci ve 100V.	irrent. Outpu	t set-point:
12.Start up delay		Sec	Less than 6 Se					,,				
13.Hold-up time	-	mS				161	ms typical, rat	ed output pov	ver			
										4.50		
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			0.01% of rate									
2.Max. Load regulation (*9) 3.Ripple r.m.s. @ rated voltage. B.	M/511- 1M11- (*12)	_	0.02% of rate		ent. +5mA ≤100	-60	-50	≤30	-20	-10	-0	-5
3.Rippie r.m.s. @ rated voitage. B.	W 5HZ~1MHZ. (*13)	mA	≤420 10V~100V	≤160	om rated outp	≤60	≤50		≤20	≤10	≤8	≤5
5.Temperature coefficient		PPM/°C			m rated outpu							
6 Tamparatura stability					rs. interval fol					oraturo.		
6.Temperature stability					n +/-0.25% of r							
7. Warm-up drift					.15% of rated o					11.		
				2033 tilali +/-0	.1370 Of Tateu C	output current	Over 30 minu	tes following p	JOWEI OII.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPUT)									
1.Vout voltage programming					ser selectable.							
Nout voltage programming Industrial (*14)	l)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated Io	out.			
Nout voltage programming In voltage programming (*14) Nout resistor programming			0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full	ser selectable. scale, user sele	Accuracy and ectable. Accura	linearity: +/-0 acy and linear	.4% of rated lo ity: +/-0.5% of	out. rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14)			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full /10Kohm full	ser selectable. scale, user sele scale, user sele	Accuracy and ectable. Accuracy	linearity: +/-0 acy and linear acy and linear	.4% of rated lo ity: +/-0.5% of	out. rated Vout.			
1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming 4. lout resistor programming (*14 5. Output voltage monitor			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy etable. Accuracy: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout	.4% of rated lo ity: +/-0.5% of	out. rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14)			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable. scale, user sele scale, user sele	Accuracy and ectable. Accuracy actable. Accuracy etable. Accuracy: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout	.4% of rated lo ity: +/-0.5% of	out. rated Vout.			
1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming 4. lout resistor programming (*14 5. Output voltage monitor)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select	ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy etable. Accuracy: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout	.4% of rated lo ity: +/-0.5% of	out. rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14))		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full VV, user select VV, user select	ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5% of rate	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%.	.4% of rated lo ity: +/-0.5% of ity: +/-0.5% of	rated Vout. rated lout.	e: 30V, Maximı	ım Sink Curre	nt: 10mA.
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)	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full IV, user select IV, user select v output mon	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5% of rate: +/-0.5 of rate	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	.4% of rated lo ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max	rated Vout. rated lout.			nt: 10mA.
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) ATED FROM THE OUTPU	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	V or 0~10V, us /10Kohm full /10Kohm full IV, user select IV, user select v output monior. Open colle	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli	Accuracy and ectable. Accuracy actable. Accuracy ectable. Accuracy: +/-0.5% of rate: +/-0.5 of rate ector. Output (Con. CV mode)	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	.4% of rated loc ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max m Voltage: 30	out. rated Vout. rated lout. kimum Voltag	ink Current: 10	mA.	
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming 6.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 OUTPU	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab	V or 0~10V, us /10Kohm full /10Kohm full /V, user select /V, user select / output moni or. Open colle	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli	Accuracy and ectable. Accuracy are ectable. Accuracy are ectable. Accuracy at +/-0.5% of rate ector. Output (a) On. CV mode entrol by electric	linearity: +/-0 acy and linear acy and linear acy and linear ted Vout d lout.%. On: On. Output: Off. Maximu cal signal or d	.4% of rated lc ity: +/-0.5% of ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Max m Voltage: 30\ iry contact. Re	rated Vout. rated lout. rated lout. kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	lmA. l: 2~30V or op	en.
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming (*14 4.lout resistor programming (*14 5.Output voltage monitor 6.Output voltage monitor (*14) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro) ATED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full /10Kohm full IV, user select IV, user select v output monior. Open colle ole analog pro amming contr	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli ctor. CC mode gramming coi	Accuracy and ectable. Accuracy are ectable. Accuracy are ectable. Accuracy at the ector. Osf of rate ector. Output to on. CV mode entrol by electrinal. Open collections.	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Output: Off. Maximu cal signal or d actor. Remote:	.4% of rated lc ity: +/-0.5% of ity: +/-0.5% of it Off: Off. Max m Voltage: 30\ iry contact. Re On. Local: Off.	rated Vout. rated lout. rated lout. rated lout. rated lout. rated lout. rated lout. Rimum Voltag W, Maximum S mote: 0~0.6V Maximum Voltag	ink Current: 10 or short. Loca tage: 30V, Max	lmA. l: 2~30V or op imum Sink Cu	en.
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1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming (*14 3.Vout resistor programming (*14 4.lout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 1. Vout programming accuracy (*1 2. Iout programming resolution 4. Jout programming resolution 5. Vout readback accuracy 5. Vout readback accuracy	ATED FROM THE OUTPU		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab analog progri Enable/Disab Enable/D	V or 0~10V, us/10Kohm full /10Kohm full /10K	ser selectable. scale, user sele scale, user sele scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si by electrical si cy electrical si cy electrical si cy electrical si in twoltage = C ninimum. Tr,T sv/2~30V or dr bedance)=Fail units in Master ts. Refer to insi nected in Dais to a proggramm Resistance rar and Output fi te front panel. can be stored i 30 age trent tage	Accuracy and ectable. Accuracy and ectapolic a	linearity: +/-0 acy and linear ted Vout d lout.%. On: On. Outpu. : Off. Maximu cal signal or d ctor. Remote: atact. 0~0.6V thatact. Remote age 25V, Maxim in high level uum, Min del Achronize their gramming via Ω. Programm orgramming r ells. Activation	.4% of rated loity: +/-0.5% of ity: -/-0.5% of	out. rated Vout. rated Vout. rated lout. dimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ptt. Local: 2~3 e = 2.5V, Max 2 pulses Ims urn-off. cation ports o munication 999.99 V/mSe	ink Current: 10 or short. Loca ltage: 30V, Max er selectable Ic 00V or open. hunted by 27V kimum high Ic . or the front par ports or the fro c. or A/mSec. I nunication po	in A. : 2-30V or op imum Sink Curgic. zener) evel input = inel. port panel. Programming rts or by the fi	en. 5V positive via the ront panel.
1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming (*14 5.Output voltage monitor 6.Output voltage monitor 6.Output voltage monitor (*14) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*18 1.Vout programming accuracy (*1 2. Nout programming accuracy (*1 3. Vout programming resolution 4. lout programming resolution	ATED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab analog progri Enable/Disab Enable/D	V or 0~10V, us/10Kohm full /10Kohm full /10K	ser selectable. scale, user sele scale, user sele scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si by electrical si cy electrical si cy electrical si cy electrical si in twoltage = C ninimum. Tr,T sv/2~30V or dr bedance)=Fail units in Master ts. Refer to insi nected in Dais to a proggramm Resistance rar and Output fi te front panel. can be stored i 30 age trent tage	Accuracy and ectable. Accuracy and ectapolic a	linearity: +/-0 acy and linear ted Vout d lout.%. On: On. Outpu. : Off. Maximu cal signal or d ctor. Remote: atact. 0~0.6V thatact. Remote age 25V, Maxim in high level uum, Min del Achronize their gramming via Ω. Programm orgramming r ells. Activation	.4% of rated loity: +/-0.5% of ity: -/-0.5% of	out. rated Vout. rated Vout. rated lout. dimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ptt. Local: 2~3 e = 2.5V, Max 2 pulses Ims urn-off. cation ports o munication 999.99 V/mSe	ink Current: 10 or short. Loca ltage: 30V, Max er selectable Ic 00V or open. hunted by 27V kimum high Ic . or the front par ports or the fro c. or A/mSec. I nunication po	in A. : 2-30V or op imum Sink Curgic. zener) evel input = inel. port panel. Programming rts or by the fi	en. SV positive via the ront panel.

GENESYS[™] 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	60	80	100	150	300	600		
1.Foldback protection											er Limit to CV r nel or by comr			
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input re	cycle in autost	art mode, by	OUTPUT butto	on, by rear par	nel or by comr	nunication.			
3.Over -voltage programming range		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 accurac	у		+/-1% of rated	d output volta	ige						•			
5.Output under voltage limit (UVL)			Prevents from	n adjusting Vo	out below limi	t. Does not ap	oly in analog	programming	. Preset by fro	nt panel or co	mmunication	port.		
6.Over temperature protection			Shuts down t	he output. Au	to recovery b	y autostart mo	de.							
7. Output under voltage limit (UVL)			Prevents adju	stment of Vo	ut below limit									
8. Output under voltage protection (U	VP)		Prevents adju mode, by Pov	stment of Voi ver Switch, by	ut below limit OUTPUT butt	. P.S output tu on, by rear pa	rns Off during nel or by com	under voltag munication.	e condition. R	eset by AC inp	out recycle in a	utostart		
FRONT PANEL														
1.Control functions			Multiple option	ons with 2 End	coders									
			Vout/Iout/Po	wer Limit mar	nual adjust									
			OVP/UVL/UVF	P manual adju	ıst									
			Protection Fu	nctions - OVP	, UVL,UVP, Fol	dback, OCL, El	NA, ILC							
			Communicati	ion Functions	- Selection of	LAN, IEEE, RS2	32,RS485,USB	or Optional co	ommunication	n interface.				
			Output ON/O	FF. Front Pane	el Lock.									
			Communicati	ion Functions	- Selection of	Baud Rate, Ad	dress, IP and	communication	on 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						utput voltage								
			lout: 4 digits,	accuracy: 0.20	% of rated out	put current +/	-1 count.							
3.Front Panel Buttons Indications			OUTPUT ON,	ALARM, PREV	IEW, FINE, CO	MMUNICATIO	N, PROTECTIO	N,CONFIGURA	ATION, SYSTEM	л, SEQUENCE	₹.			
4. Front Panel Display Indications			Voltage, Curre (communicat	ent, Power, C\ ion), RS/USB/I	/, CC, CP, Exter LAN/IEEE com	nal Voltage, E munication, T	xternal Currer rigger, Load/S	nt, Address, LF store Cell.	P, Autostart, S	afetstart, Fold	lback V/I, Rem	ote		
ENVIRONMENTAL CONDITIONS														
1.Operating temperature			0~50°C, 100%	load.										
2.Storage temperature			-30~85°C											
3.Operating humidity		%	20~90% RH (r	ao condoncati	ion)									
4.Storage humidity		%	10~95% RH (r											
5.Altitude			Operating: 10	000ft (3000m	ı), output curr	ent derating 2 ^o	%/100m or Ta	derating 1°C/	100m above 20	000m. Non op	erating: 40000	ft (12000m).		
MECHANICAL			I											
1.Cooling			Forced air cod	oling by interr	nal fans. Air flo	ow direction: f	om Front par	nel to power si	upply rear					
2.Weight		kg	Less than 5kg											
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 553.2	(Including b	isbars and bu busbars and b	ousbars cove	r) (Refer to C	Outline drawi	ing).				
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition Ar	nex C - 2.1.3.1	l						
5.Shock			Less than 20G	i, half sine, 11	mSec. Unit is ι	ınpacked.								
CAFETY/FAAC														
SAFETY/EMC			T											
1. Applicable standards: Safe	ety G1kW/G1.7kW		UL61010-1, CS	A22.2 No.610	10-1, IEC61010	0-1, EN61010-1								
1.1. Interface classification G1k	W/1.7kW					5, J6, J7, J8 (sei se) are hazard) are Non Haza	ırdous.		
1.2 Withstand voltage G1k	W/1.7kW		Input - Grour 60V≤Vout≤10 Output & J8 Output & J8 100V <vout≤0< td=""><td>nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro</td><td>C 1min. Input – Outp J2, J3, J4, J5 Dund: 1500VI S: Input – Out J2, J3, J4, J5 Dund: 2500VI</td><td>ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9</td><td>e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J3</td><td>, J4, J5, J6, J tion options) 2835VDC 1m 3, J4, J5, J6,</td><td>J7 & J9 (comr : 850VDC 1m in. J7 and J9 (co</td><td>munication of in.</td><td>: 4242VDC 1r otions): 4242\ options): 424</td><td>DC 1min,</td></vout≤0<>	nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	C 1min. Input – Outp J2, J3, J4, J5 Dund: 1500VI S: Input – Out J2, J3, J4, J5 Dund: 2500VI	ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J3	, J4, J5, J6, J tion options) 2835VDC 1m 3, J4, J5, J6,	J7 & J9 (comr : 850VDC 1m in. J7 and J9 (co	munication of in.	: 4242VDC 1r otions): 4242\ options): 424	DC 1min,		
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.	Output to Gre	ound 500VDC								
2.Conducted emmision						nnex H table	H 1 ECC Part	15-A VCCL A						
									UCCL A					
3.Radiated emission	7 (* 4)					nnex H table	n.3 and H4, F	CC Part 15-A,	VCCI-A					
4. EMC compliance EMC	C (*4)		According to	IEC/EN61204-	-3 industrial ei	nvironment								

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

 **I: 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-150V models: Measured with JEITA RC-913TC (1:1) probe. For 200~600V models: Measured with 100:1 probe.

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

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

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

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

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

 **13: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 **15: Measured at the sensing point.

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

 **17: Ta=25°C, rated output power.

GENESYS™ 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING	-	10 265	20 125	30.00	40.60	60.45	00.24	100.27	150 10	200.0	600 4 5
	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)	Α	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power	W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
	1)
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	0~265Vac, 47~0 2~460Vac, 47~0 2~528Vac, 47~0 1~265Vac, 47~0	63Hz (Covers 63Hz (Covers :	380/400/415\ 380/400/415/	140/460/480Va	ac)			
3-Phase, 200V model 2. Maximum Input current at 100% load 3-Phase, 480V model 1-Phase, 200V model	S: S:	10A @ 200Va 5.5A @ 380Va 5.5A @ 380Va 16.5A @ 200V	ic ic						-	-	
<u> </u>				30Vac, rated or	itput power.						
3.Power Factor (Typ)		For 1-Phase: (0.99 @ 200Va	c, rated output	power.						
4.Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)	Α	Less than 50A	1	•							
								100	1=0		
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		0.01% of rate									
2.Max. Load regulation (*8)		0.01% of rate		T							
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 mir	nutes warm-u	ıp.				
6.Temperature stability		0.01% of rate	d Vout over 8	hrs interval fo	llowing 30 mir	nutes warm-u	ıp. Constant lir	ne, load & tem	np.		
7. Warm-up drift							wing power o				
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
11.Transient response time	mS mS	450 Time for outp	600 out voltage to	800 recover withi	900 n 0.5% of its ra	1100 ated output for	1300 or a load chang ng 100V. 2mS, f	2100 ge 10~90% of for models ab	rated output	3200 current. Outp	3100 ut set-point:
12.Start up delay	Sec	Less than 6 Se			a c. a up tt	meluuli	ا ۱۱۱۵ ما ۱۱۱۵ م				
12.3tart up delay	Sec	Less triair o se									
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		0.05% of rate	d output curi	ent.							
2.Max. Load regulation (*13)		0.08% of rate	d output curi	ent.							
3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient	PPM/°C	10V~100V	100PPM/°C f	rom rated out	out current, fo	llowing 30 m	inutes warm-u	ıp.			
C.T and the state of the											
6.Temperature stability							ip. Constant lir				
7. Warm-up drift							0 minutes foll		on.		
<u>'</u>		150V~600V: L	ess than +/-0	1.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLAT	ED FROM	THE OUTPUT)									
1.Vout voltage programming			V or 0~10V II	ser selectable	Accuracy and	l linearity: ±/-	0.15% of rated	Vout			
2.lout voltage programming (*15)							0.4% of rated I				
3.Vout resistor programming							arity: +/-0.5% c				
4.lout resistor programming (*15)						acy and linea	arity: +/-0.5% c	f rated lout.			
5.Output voltage monitor				able. Accuracy							
6.Output current monitor (*15)		0~5V or 0~10	V, user select	able. Accuracy	/: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUT	UT)										
Power supply OK #1 signal		Power supply	output mon	itar Opan call	actor Output	On: On Outr	out Off: Off. Ma	vimum Volta	ao 201/ Mayir	num Sink Curr	ont: 10m A
											ent. Ionia.
2. CV/CC signal							um Voltage: 30				
3. LOCAL/REMOTE Analog control							dry contact. R				
4. LOCAL/REMOTE Analog signal		5, 5					On. Local: Off.				rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~30			logic.	
6. INTERLOCK (ILC) control							e: 0~0.6V or sh				
7. Programmed signals							timum sink cur				
8. TRIGGER IN / TRIGGER OUT signals		Maximum lo	ow level inp	ut voltage_=	0.8V,Minimu	m high leve	l input voltag	je = 2.5V, Ma	aximum high	level input :	= 5V positive
	1					num, Min de	elay between	2 pulses 1m	is.		
•		I Ry plactrical \	/oltage: 0~0.	6V/2~30V or d	ry contact.						
9. DAISY_IN/SO control signal											
•		4~5V=OK, 0V	(500ohm im	pedance)=Fail							
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal			(500ohm im	pedance)=Fail							
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		4~5V=OK, 0V			r/Slave mode	Refer to inst-	uction manua	I			
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation		4~5V=OK, 0V Possible. Up 1	o 4 identical	units in Maste			uction manua	l.			
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		4~5V=OK, 0V Possible. Up t	o 4 identical identical uni	units in Maste	truction manı	ual.					
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		4~5V=OK, 0V Possible. Up t Possible. Two Power suppli	o 4 identical identical uni es can be cor	units in Maste its. Refer to ins inected in Dai:	truction mani sy chain to syr	ual. nchronize the	ir turn-on and	turn-off.			
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		4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou	to 4 identical didentical uni es can be con tput power to	units in Maste its. Refer to ins nected in Dai o a proggramr	truction manu sy chain to syr ned value. Pro	ual. nchronize the gramming vi	ir turn-on and a the commun	turn-off. ication ports			
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		Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri	to 4 identical identical uni es can be cor tput power to es resistance	units in Maste its. Refer to ins inected in Dai o a proggramr . Resistance ra	truction manusy chain to syr ned value. Pro nge: 1~1000n	ual. nchronize the gramming vi nΩ. Programr	ir turn-on and a the commun ning via the co	turn-off. ication ports ommunication	n ports or the	front 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		Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri	to 4 identical identical uni es can be cor tput power to es resistance le Output riso	units in Maste its. Refer to ins inected in Dai o a proggramr . Resistance ra e and Output f	truction manual sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize the gramming vi nΩ. Programr	ir turn-on and a the commun	turn-off. ication ports ommunication	n ports or the	front panel.	g via 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 6. Slew rate control		Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	to 4 identical identical united can be contput power to the series resistance le Output rision ports or the series resistance can be contput rision ports or the series resistance can be contput rision ports or the series resistance can be contput rision ports or the series resistance can be controlled to the series resistanc	units in Maste its. Refer to ins nected in Dai: o a proggramn . Resistance ra e and Output f ne front panel	truction manu sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize the gramming vi nΩ. Programr Programming	ir turn-on and a the commun ming via the co range: 0.0001	turn-off. lication ports ommunication ~999.99 V/mS	n ports or the Sec. or A/mSec	front panel. . Programmin	
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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		Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	to 4 identical identical united can be contput power to the series resistance le Output rision ports or the series resistance can be contput rision ports or the series resistance can be contput rision ports or the series resistance can be contput rision ports or the series resistance can be controlled to the series resistanc	units in Maste its. Refer to ins nected in Dai: o a proggramn . Resistance ra e and Output f ne front panel	truction manu sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize the gramming vi nΩ. Programr Programming	ir turn-on and a the commun ming via the co range: 0.0001	turn-off. lication ports ommunication ~999.99 V/mS	n ports or the Sec. or A/mSec	front panel. . Programmin	
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)		4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up	to 4 identical unit es can be con tput power to es resistance le Output rision ports or tluto 100 steps	units in Maste its. Refer to ins unected in Dai: o a proggramr Resistance ra e and Output f ne front panel can be stored	truction manus y chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize the gramming vi nΩ. Programm Programming cells. Activation	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front 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)		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	to 4 identical unities can be continued to identical unities can be continued to identical unities resistance le Output rision ports or the to 100 steps 20 d output volt	units in Maste its. Refer to ins inected in Dai- o a proggramr. Resistance ra e and Output f e front panel can be stored 30 age	truction manusy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front 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) 3. Vout programming accuracy (*15)		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 units can be corrected by the corrected by	units in Maste its. Refer to ins inected in Dai o a proggram. Resistance ra e and Output f ne front panel can be stored 30 age ent+0.2% of ra ltage	truction manusy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front 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. Jout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution		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 0.002% of rat 0.002% of rat	to 4 identical unit of the control o	units in Maste its. Refer to ins inected in Dai o a proggramr . Resistance ra e and Output f ne front panel can be stored 30 age ent+0.2% of ra litage	truction manusy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front 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 accuracy (*15) 3. Vout programming accuracy (*15)		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 unit of the control o	units in Maste its. Refer to ins inected in Dai o a proggramr . Resistance ra e and Output f ne front panel can be stored 30 age ent+0.2% of ra litage	truction manusy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front 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. Jout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution		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 0.002% of rat 0.002% of rat	to 4 identical identical unit of the control of the	units in Maste tts. Refer to ins inected in Dai o a proggram. Resistance ra e and Output f re front panel and output f stored and age ent+0.2% of ra ltage rrent tage	truction manusy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize the gramming vi nΩ. Programr Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. ication ports ommunication ~999.99 V/mS ad via the com	n ports or the Sec. or A/mSec nmunication p	front panel. . Programmin ports or by the	front panel.
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GENESYS[™] 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		Α	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS		٧	10	20	30	40	60	80	100	150	300	600
INPUT CHARACTERISTICS		V			30 ~265Vac, 47~			00	100	130	300	000
					~460Vac, 47~			/ac)				
1.Input voltage/freq. 3 phase, 3 wire	+ Ground (*4)				~528Vac, 47~				ac)			
					~265Vac, 47~6							
3-	Phase, 200V models:		12.5A @ 200V		,	, , , , , , ,		,				
	Phase, 400V models:		6.5A @ 380Va									
	Phase, 480V models:		6.5A @ 380Va	ic								
1-	Phase, 200V models:		21A @ 200Va	:								
3.Power Factor (Typ)			For 3-Phase:	0.94 @ 200/38	0Vac, rated o	utput power.						
**			For 1-Phase:	0.99 @ 200Vac	, rated outpu	t power.						
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50/	1								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			-	d output volta		1 .0	00	1 00	100	1.50	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 and noise (p-p, 20M12) (9)	J	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C							15	20	60	100
-					ut voltage, fo				1 10.			
6.Temperature stability					hrs interval fo					ıp.		
7. Warm-up drift	(*10)				utput voltage					_		
8.Remote sense compensation/wire	(*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	ull load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No	o load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time		mS									current. Outpo	ut set-point:
·					s than 1mS, fo	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		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr		1 40] 00	00	100	150	300	000
2.Max. Load regulation (*13)				d output curr								
	250 (*14)					<150	<100	<70	-45	<30	~12	-5
3.Ripple r.m.s. @ rated voltage. 3-Ph		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Ph	ase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C			rom rated out							
					m rated outp					-		
6.Temperature stability					rs. interval fo							
7. Warm-up drift			10V~100V mg	odel: Less than	n +/-0.25% of	rated output o	current over 3	0 minutes follo	owing power	on.		
7. Warm-up unit			150V~600V: I	ess than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MO	NITORING (ISOI ATEI) FROM T	THE OUTPUT)									
1.Vout voltage programming				V or 010V	ser selectable.	Accuracy and	l linoarity: 1/	15% of rated	Vout			
2.lout voltage programming (*15)					ser selectable.							
3.Vout resistor programming					scale, user sel							
4.lout resistor programming (*15)					scale, user sel							-
							acy and iniea	III.y. +/-0.5% 0	i rateu iout.			
5.Output voltage monitor					able. Accuracy							
6.Output current monitor (*15)			0~5V or 0~10	v, user select	able. Accuracy	y: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLATE	D FROM THE OUTPU	T)										
1. Power supply OK #1 signal			Power supply	output mon	itor. Open coll	ector. Output	On: On. Outp	ut Off: Off Ma		201/ 14		. 10 1
2. CV/CC signal									iximum voita	de: 30v. Maxin	านm Sink Curr	ent: IUMA.
3. LOCAL/REMOTE Analog control						e: On. C.V mod						ent: IUMA.
4. LOCAL/REMOTE Analog signal			Juk		gramming co		e: Off. Maximi	ım Voltage: 30	V, Maximum	Sink Current: 1	10mA.	
5. ENABLE/DISABLE signal			analog progr		5 5	ntrol by electr	e: Off. Maximi rical signal or	um Voltage: 30 dry contact. R	OV, Maximum emote: 0~0.6	Sink Current: ' V or short. Loc	10mA. :al: 2~30V or o	pen.
12. LIVIULE/ DISKULL SIGNAL				amming contr	ol monitor sig	ntrol by electr nal. Open colle	e: Off. Maximu rical signal or ector. Remote:	um Voltage: 30 dry contact. R On. Local: Off.	OV, Maximum emote: 0~0.6 Maximum Vo	Sink Current: ' V or short. Loc Itage: 30V, Max	10mA. :al: 2~30V or op ximum Sink Cu	pen.
6 INTERLOCK (ILC) control			Enable/Disab	amming contr le PS output	ol monitor sig by electrical si	ntrol by electr nal. Open colle ignal or dry co	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30	OV, Maximum emote: 0~0.6 Maximum Vo OV or open. U	Sink Current: 7 V or short. Loc Itage: 30V, Max ser selectable	10mA. :al: 2~30V or op ximum Sink Cu	pen.
6. INTERLOCK (ILC) control			Enable/Disab Enable/Disab	amming contr le PS output l le PS output l	ol monitor sig by electrical si by electrical si	ntrol by electr nal. Open colle ignal or dry co ignal or dry co	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh	OV, Maximum emote: 0~0.6 Maximum Vo OV or open. U: nort. Local: 2~	Sink Current: 7 V or short. Loc Itage: 30V, Masser selectable 30V or open.	10mA. :al: 2~30V or o ximum Sink Cu logic.	pen.
6. INTERLOCK (ILC) control 7. Programmed signals			Enable/Disab Enable/Disab Two open dra	amming controle PS output le PS output la le P	ol monitor sig by electrical si by electrical si nable signals. I	ntrol by electi nal. Open colle ignal or dry co ignal or dry co Maximum volt	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6Ventact. Remote: age 25V, Max	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sink Current: 'V or short. Loc Itage: 30V, Mar ser selectable :30V or open. Shunted by 27	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. irrent: 10mA.
	S		Enable/Disab Enable/Disab Two open dra Maximum lo	amming controlle PS output le PS output la le	ol monitor sig by electrical si by electrical si nable signals. I ut voltage =	ntrol by electr nal. Open colle ignal or dry co ignal or dry co Maximum volt 0.8V,Minimu	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V entact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur input voltag	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	Sink Current: 'V or short. Loc ltage: 30V, Mar ser selectable :30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or o ximum Sink Cu logic.	pen. irrent: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	S		Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge	amming controlle PS output le P	by electrical si by electrical si by electrical si nable signals. I ut voltage = ninimum. Tr,	ntrol by electinal. Open colle ignal or dry co ignal or dry co Maximum volt 0.8V,Minimu Tf=1us Maxin	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V entact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur input voltag	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	Sink Current: 'V or short. Loc ltage: 30V, Mar ser selectable :30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. irrent: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	S		Enable/Disab Enable/Disab Two open dra Maximum k edge trigge By electrical	amming controlle PS output le P	ol monitor sig by electrical si by electrical si nable signals. I ut voltage = ninimum. Tr, 6V/2~30V or d	ntrol by electinal. Open colle ignal or dry co ignal or dry co Maximum volt 0.8V,Minimu Tf=1us Maxin ry contact.	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V entact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur input voltag	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	Sink Current: 'V or short. Loc ltage: 30V, Mar ser selectable :30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. irrent: 10mA.
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GENESYS[™] 5kW SERIES SPECIFICATIONS

1.1 Data d a (¥1)		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)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2) 3.Rated output power		A W	500 (*3) 5000	250 5000	170 5100	125 5000	100 5000	85 5100	65 5200	50 5000	34 5100	25 5000	17 5100	13 5200	10 5000	8.5 5100
			5000	5000				5100			5100	5000	5100		5000	5100
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wi	ire + Ground (*4)		3-Phase,	400V mod	dels: 170~2 dels: 342~4 dels: 342~4	460Vac, 47	'~63Hz (Co	overs 380	/400/415V		201/251					
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		17.5A @ 2 9.2A @ 38 9.2A @ 38	00Vac 80Vac	Jeis: 542~:	526VaC, 47	~63H2 (CC	Jvers 360/	400/415/4	40/460/40	SOVAC)					
3.Power Factor (Typ)	3-Filase, 400V illoueis.				, rated ou	tnut nowe	r									
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)			_		put voltag		30	00	00	100	150	200	300	400	300	000
2.Max. Load regulation (*8)					put voltag											
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	-1	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C			ed output						20	73	00	00	00	100
6.Temperature stability					t over 8hr						nt line loa	d & temn				
7. Warm-up drift					rated out							a a temp.				
8.Remote sense compensation/wi	ire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	110 (10)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
2.5p prog. nesponse 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 mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time	140 10au (12)	mS	Time for	output vo	Itage to re	cover wit	hin 0.5% c	f its rated	output fo	r a load cl	nange 10~	90% of ra	ted outpu			
12.Start up delay		Sec	Less than		1150. E035 (11011 11115,1	or model.	up to un	a melaam	9 1001.21	113, 101 1110	acis abov	C 100V.			
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			_		put currer											
2.Max. Load regulation (*13)					put currer											
3.Ripple r.m.s. @ rated voltage. B.V	V 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C	10V~100\ 150V~60		PM/°C from											
6.Temperature stability			0.01% of	rated lout	over 8hrs	. interval f	ollowing	30 minute	s warm-u	p. Constar	nt line, loa	d & tempe	erature.			
7. Warm-up drift			-		ess than -								١.			
ANALOG PROGRAMMING AND M	IONITORING (ISOLATED	FROM T														
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, use	r selectabl	e. Accura	cy and line	earity: +/-0	0.15% of ra	ated Vout.					
2.lout voltage programming (*15))		0~100%,	0~5V or 0	~10V, use	r selectabl	e. Accura	cy and line	earity: +/-0	0.4% of rat	ted lout.					
3.Vout resistor programming			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linea	rity: +/-0.5	% of rate	d Vout.				
4.lout resistor programming (*15)			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linea	rity: +/-0.5	% of rate	d lout.				
5.Output voltage monitor			0~5V or 0)~10V, use	er selectab	le. Accura	cy: +/-0.5	% of rated	Vout.							
6.Output current monitor (*15)			0~5V or 0)~10V, use	er selectab	le. Accura	00.1/05	% of rated	lout.							
	,						Cy. +/-0.3									
	TED FROM THE OUTPUT						Cy. +/-0.3									
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT	Γ)		nnly outn	out monito	or Open co			On Outn	ut Off: Off	Maximur	n Voltage	· 30V Max	imum Sin	k Current:	10mA
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	TED FROM THE OUTPUT	г)	Power su		out monito		ollector. O	utput On:							k Current:	10mA.
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal		Γ)	Power su	onitor. Op	out monito en collect	or. CC mo	ollector. O de: On. CV	utput On: ' mode: O	ff. Maximu	ım Voltag	e: 30V, Ma	ximum Sir	nk Current	: 10mA.		
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control		r) 	Power su CV/CC Mo Enable/D	onitor. Op isable and	en collect alog progi	or. CC mo	ollector. O de: On. CV control by	utput On: ' mode: O electrical	ff. Maximu signal or o	ım Voltag dry contac	e: 30V, Ma ct. Remote	ximum Sir e: 0~0.6V c	nk Current or short. Lo	: 10mA. ocal: 2~30	V or open	
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal		 	Power su CV/CC Mo Enable/D analog pr	onitor. Op isable and ogrammir	en collect alog progi ng control	or. CC mor ramming of monitor si	ollector. O de: On. CV control by gnal. Ope	utput On: ' mode: O' electrical n collecto	ff. Maximu signal or o r. Remote:	um Voltag dry contac On. Local:	e: 30V, Ma ct. Remote Off. Maxir	ximum Sir e: 0~0.6V c num Volta	nk Current or short. Lo ge: 30V, M	:: 10mA. ocal: 2~30 aximum S	V or open	
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 	Power su CV/CC Mo Enable/D analog pr Enable/D	onitor. Op visable and rogrammin visable PS	en collect alog progi	or. CC mo ramming o monitor si electrical	ollector. O de: On. CV control by gnal. Ope signal or	utput On: ' mode: O' electrical n collecto dry conta	ff. Maximu signal or o r. Remote: ct. 0~0.6V	um Voltag dry contac On. Local: or short, 2	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	ximum Sir :: 0~0.6V c num Volta ppen. User	nk Current or short. Lo ge: 30V, M selectabl	:: 10mA. ocal: 2~30 aximum S e logic.	V or open	
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		 	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D	onitor. Op risable and rogrammin risable PS risable PS	en collect alog progi ng control output by output by	or. CC mor ramming of monitor si electrical	ollector. O de: On. CV control by gnal. Ope signal or	utput On: mode: O' electrical n collecto dry conta dry conta	ff. Maximusignal or or Remote: ct. 0~0.6V	um Voltag dry contac On. Local: or short, 2 e: 0~0.6V (e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Le	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30	nk Current or short. Lo ge: 30V, M selectabl V or open	:: 10mA. ocal: 2~30 aximum S e logic.	V or open ink Currer	
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 	Power su CV/CC Mo Enable/D analog pr Enable/D Two oper	onitor. Op visable and rogrammin visable PS visable PS n drain pro	en collect alog progi ng control output by output by ogrammal	or. CC mor ramming of monitor si electrical electrical ble signals	ollector. O de: On. CV control by gnal. Ope signal or signal or	utput On: mode: O electrical collecto dry contac dry contac m voltage	ff. Maximu signal or o r. Remote: ct. 0~0.6V ct. Remote 25V, Maximum	um Voltag dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Le	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	or short. Lo ge: 30V, M selectabl V or open unted by 2	:: 10mA. ocal: 2~30 aximum S e logic. 27V zener	V or open ink Curren	t: 10mA.
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal			Power su CV/CC Mo Enable/D analog pr Enable/D Two oper Maximu positive By electri	onitor. Op visable and rogrammin visable PS visable PS on drain pro m low le edge trig ical Voltag	en collect alog program output by output by ogrammal vel input gger: tw= ge: 0~0.6V	or. CC moramming of monitor size electrical electrical ble signals voltage = 10us mir/2~30V or	ollector. O de: On. CV control by ggnal. Ope signal or signal or . Maximul = 0.8V,Mi nimum. Ti dry conta	utput On: / mode: O' electrical n collecto dry contai dry contai m voltage nimum h r,Tf=1us N	ff. Maximu signal or o r. Remote: ct. 0~0.6V ct. Remote 25V, Maximum	um Voltag dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Le	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	or short. Lo ge: 30V, M selectabl V or open unted by 2	:: 10mA. ocal: 2~30 aximum S e logic. 27V zener	V or open ink Curren	t: 10mA.
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign			Power su CV/CC Mo Enable/D analog pr Enable/D Two oper Maximu positive By electri	onitor. Op visable and rogrammin visable PS visable PS on drain pro m low le edge trig ical Voltag	en collect alog progi ng control output by output by ogrammal vel input gger: tw=	or. CC moramming of monitor size electrical electrical ble signals voltage = 10us mir/2~30V or	ollector. O de: On. CV control by ggnal. Ope signal or signal or . Maximul = 0.8V,Mi nimum. Ti dry conta	utput On: / mode: O' electrical n collecto dry contai dry contai m voltage nimum h r,Tf=1us N	ff. Maximu signal or o r. Remote: ct. 0~0.6V ct. Remote 25V, Maximum	um Voltag dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Le	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	or short. Lo ge: 30V, M selectabl V or open unted by 2	:: 10mA. ocal: 2~30 aximum S e logic. 27V zener	V or open ink Curren	t: 10mA.
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SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal			Power su CV/CC Mc Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Oh	ponitor. Oppisable and ogrammin visable PS or drain promise m low leed the drain visable VS of Color (Color Voltage). OV (5000 COLOR Voltage)	nen collect alog progi ng control output by output by output by ogrammal verl input gger: tw= ge: 0~0.6V ohm impe	or. CC moor amming of monitor single electrical electrical ble signals voltage = 10us min /2~30V or dance)=Fi	ollector. O de: On. CV control by gnal. Ope signal or signal or . Maximuu = 0.8V,Mi nimum. Ti dry conta ail	utput On: ' mode: O' electrical n collecto dry conta- dry conta- m voltage nimum h r,Tf=1us h ct.	ff. Maximusignal or cr. Remote: ct. 0~0.6V ct. Remote: 25V, Maxiigh level Maximum	um Voltag dry contac On. Local: or short, : e: 0~0.6V c imum sink input vo n, Min del	e: 30V, Ma ct. Remote Off. Maxin 2~30V or c or short. Lo current 1 Itage = 2 lay betwe	ximum Sir x: 0~0.6V c num Volta ppen. User pcal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Current or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	:: 10mA. ccal: 2~30 aximum S e logic 27V zener h level ir	V or open ink Currer) nput = 5V	t: 10mA.
SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation			Power su CV/CC Mc Enable/D Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Ok	onitor. Oppisable and orgamminisable PS visable PS or drain promise dege trigical Voltage (C, OV (5000)). Up to twe Two identitions able to the two identitions of the two identitions above the two identitions of the two identitions above the two identitions or the two identitions above the two identitions are incompletely and incompletely above the two identitions are incompletely above the identition are identities and incompletely above the identities are identities and incompletely above the identities are identities and incompletely above the identities are identities and identities are identities are identities and identities are identities are identities and identities are identities are identities and incompletely are identities and identities are identities and identities are identities are identities and identities are identities are identities and identities are identities are identities are identities and identities are identities are identitie	nen collected alog program geontrol output by output by output by output well input gger: twellopen (0-0.6V ohm impedited units.)	or. CC moor amming of monitor single electrical electrical ble signals voltage = 10us min /2~30V or dance)=Fi	billector. O de: On. CV control by gignal. Ope signal or signal or signal or signal or distribution. Ti dry conta ail	utput On: / mode: O' electrical n collecto dry conta- dry conta- m voltage nimum h r,Tf=1us h ct.	ff. Maximus signal or or r. Remote: ct. 0~0.6V ct. Remote 25V, Maxiigh level Maximum	um Voltag dry contac On. Local: or short, : e: 0~0.6V c imum sink input vo n, Min del	e: 30V, Ma ct. Remote Off. Maxin 2~30V or corr short. Lo current 1 Itage = 2 lay betwee	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Current or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	:: 10mA. ccal: 2~30 aximum S e logic 27V zener h level ir	V or open ink Currer) nput = 5V	t: 10mA.
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SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_IN/SO CONTROL signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain			Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Oh Possible. Power su Limits the	onitor. Oppisable and ogramminisable PS isable PS of drain promined the edge trigical Voltage, VO (5000). Up to twee Two identification and the pplies care eoutput passeries res	nen collect alog program g control output by output by ogrammal vel input gger: twe gger: tve ditical units. In be conne ower to a sistance. R	or. CC mooramming of monitor size electrical electrical ble signals voltage = 10us min //2~30V or dance)=Fixed entical unit. Refer to in elected in Dispression proggram esistance	oblector. Ode: On. CV control by gnal. Ope signal or of signal or of signal or of signal or of signal or of signal or of matter of the of the of signal or of sig	utput On: / mode: O electrical n collecto dry contai dry contai m voltage nimum h r,Tf=1us h ct. er/Slave m n manual. to synchr ie. Progra 1000mΩ.	ff. Maximus signal or or r. Remote: ct. 0~0.6V ct. Remote: 25V, Maxiigh level Maximum mode. Referencial signal sig	um Voltag dry contac On. Local: or short, : e: 0~0.6V c imum sink input vo n, Min del r to instru r turn-on a the comi	e: 30V, Ma ct. Remote Off. Maxin 2~30V or co or short. Let current 1 Itage = 2 lay betwee ction man and turn-c municatio	ximum Sir c: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m off. n ports or nication p	nk Current or short. Lo ge: 30V, M r selectabl V or open unted by i mum hig ses 1ms.	:: 10mA. ccal: 2~30 aximum S e logic 27V zener; th level ir r please cc	V or open ink Currer) nput = 5V onsult with	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							y changes n ycle in auto									ation.
2.Over-voltage protection (OVP)							recycle in a									
3.Over -voltage programming ran		V					5-55.125	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5
4. Over-voltage programming acc			+/-1% of r													
5.Output under voltage limit (UVI	L)						mit. Does no		n analog p	rogrammi	ng. Preset	by front p	oanel or co	mmunica	tion port.	
6.Over temperature protection							by autosta	rt mode.								
7. Output under voltage limit (UV	L)		Prevents													
8. Output under voltage protection	on (UVP)		Prevents mode, by	adjustme Power Sw	nt of Vout vitch, by C	below lin	nit. P.S outp utton, by re	ut turns C ar panel o	off during or by comn	under volt nunicatior	age condi 1.	tion. Rese	et by AC in	out recycle	e in autosta	art
FRONT PANEL																
1.Control functions			Multiple	options w	ith 2 Enco	ders										
			Vout/lout													
			OVP/UVL													
							oldback, O	CL, ENA, II	LC							
							of LAN,IEEE			or Optiona	l commun	ication in	terface.			
			Output O					,	,							
			Commun	ication Fu	nctions -	Selection	of Baud Rat	e, Addres	s, IP and c	ommunica	ation lang	Jage.				
			Analog Co	ontrol Fur	nctions - S	election \	/oltage/resi	stive proc	gramming	, 5V/10V, 5	K/10K pro	gramming	q			
			Analog M	onitor Fu	nctions - :	Selection	of Voltage/0	Current M	onitoring	5V/10V.						
2.Display			Vout: 4 di	gits, accu	racy: 0.05	% of rated	output vol	tage +/-1	count.							
							utput curre									
3. Front Panel Buttons Indications			OUTPUT (ON, ALARI	M, PREVIE	W, FINE, C	OMMUNICA	ATION, PR	OTECTION	N,CONFIGL	JRATION, S	YSTEM, S	EQUENCE	₹.		
4. Front Panel Display Indications			Voltage, ((commun	Current, Po ication), F	ower, CV, RS/USB/L <i>F</i>	CC, CP, Ex AN/IEEE co	ternal Volta ommunicati	ge, Exterr on, Trigge	nal Curren er, Load/St	t, Address, ore Cell.	, LFP, Auto	start, Safe	etstart, Fol	dback V/I,	Remote	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 1	00% load												
			-30~85°C	00% l0au												
2.Storage temperature		_				,										
3.Operating humidity		%	20~90% F													
4.Storage humidity		%	10~95% F													
5.Altitude (*17)			Operating	g: 10000ft	(3000m),	output cu	irrent derati	ng 2%/10	0m or Ta c	derating 1°	C/100m ak	ove 2000	m. Non op	erating: 4	0000ft (120	000m).
MECHANICAL																
1.Cooling			Forced ai	cooling l	by interna	l fans. Air	flow directi	on: from I	Front pane	el to powe	r supply re	ar				
2.Weight		kg	2.7kW/3.4							ss than 7.5						
3.Dimensions (WxHxD)		mm	W: 423, I	H: 43.6, [D: 441.5 (Without	busbars ar	nd busba and busb	rs cover),	,		drawing	1).			
4.Vibration			MIL-810G	, method	514.6, Pro	cedure I,	test condition	on Annex	C - 2.1.3.1							
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit	is unpacked									
SAFETY/EMC																
1.Applicable standards:	Safety		111 61010	1 ((1)	2 No 6101	0 1 IEC61	010-1, EN610	210.1								
1.Applicable standards:	Salety			·					0.10/		\	N I				
1.1. Interface classification			60≤Vout≤	600V Mo	dels: Out	out & J8 (s	l, J5, J6, J7, J ense) are ha	zardous,	J1, J2, J3, J	14, J5, J6, J7	7 & J9 (com	municati	on options	s) are Non		i.
1.2 Withstand voltage			Input - G 60V≤Vou Output & Output & 100V <vo Output & Output & Input - G</vo 	round: 28 t≤100V M J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens J8 (sens round: 28	335VDC Models: Ir se) - J1, J se) - Grou Models: se) - J1, J se) - Grou 335VDC	1min. nput – Ou 2, J3, J4, ind: 1500 Input – O 2, J3, J4, ind: 2500 1min.	J8 (sense) Itput & J8 (s J5, J6, J7 VDC 1min, utput & J8 J5, J6, J7 VDC 1min.	sense), J & J9 (cor Input - G (sense), & & J9 (cor	1, J2, J3, nmunicat fround: 28 J1, J2, J3	J4, J5, J6 ion option 835VDC 1 , J4, J5, J	5, J7 & J9 ns): 850VI Imin. 6, J7 and	(commur DC 1min. J9 (comr	nication o	ptions): 4	242VDC 1	min,
1.3 Insulation resistance			100Mohn	at 25°C,	70%RH. C	Output to	Ground 50	0VDC								
2.Conducted emmision			IEC/EN61	204-3 Indi	ustrial env	vironmen	t, Annex H t	able H.1 , I	FCC Part 1	5-A, VCCI-	Α.					
3.Radiated emission			IEC/EN61	204-3 Indi	ustrial en	vironmen	t, Annex H t	able H.3	and H4, FC	C Part 15-	A. VCCI-A					
4. EMC compliance	EMC(*18)		IEC/EN61				-									
ze compilance	2(10)		1.20, 21401.	_0 + J iiiui	asarar em	Jiiiiiciii										

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

NOTES:

- NOTES:

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

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

 * 3: G5KW: Derate 5A/1°C above 40°C

 * 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase

 * 5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

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

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

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

 * 9: For 10V-150V models: Measured with JETA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.

 * 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.

 * 14: For 10V model, the ripple is measured at 20-100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 * 16: Measured at the sensing point.

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

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

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

 * 20 For 10V model only: Max. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.

 * 21: For 10V model only: Nax. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.

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

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

OUTPUT RATING		G	1000-5	1500-3.4							
1.Rated output voltage(*1)		V	1000	1500							
2.Rated output current (*2)		Α	5	3.4							
3.Rated output power		W	5000	5000							
INPUT CHARACTERISTICS		٧	1000	1500							
1.Input voltage/freq. 3 phase, 3 w	iro Ground (*4)		3-Phase, 200V models: 170~265V								
			3-Phase, 480V models: 342~528Vac, 47~63								
2. Maximum Input current at	3-Phase, 200V models:		17.5A @								
100% load	3-Phase, 480V models:		9.2A @								
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*3)		%	0.94 @ 200/380Vac,	ated output power. 92							
5.Inrush current (*6)		A	Less th	·							
CONSTANT VOLTAGE MODE		V	1000	1500							
1.Max. Line regulation (*7)			0.01% of rated								
2.Max. Load regulation (*8)			0.01% of rated out	-							
3.Ripple and noise (p-p, 20MHz) (*9)	mV	900	900							
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	200	200							
5.Temperature coefficient		PPM/°C	50PPM/°C from rated output volta	ge, following 30 minutes warm-up.							
6.Temperature stability			0.01% of rated Vout over 8hrs interval following	30 minutes warm-up. Constant line, load & temp.							
7. Warm-up drift			Less than 0.05% of rated output voltage+	2mV over 30 minutes following power on.							
8.Remote sense compensation/w	ire (*10)	V	5	5							
9.Up-prog. Response time (*11)		mS	150	150							
11.5	Full load (*11)	mS	100	100							
10.Down-prog.response time:	No load (*12)	mS	3000	3000							
44.7	,		Time for output voltage to recover within 0.5% of its rated output for								
11.Transient response time		mS	10~100%, Local si	ense. 2mS typical.							
12.Start up delay		Sec	Less that	ın 5 Sec							
13. Hold up time	,	mS	5mS typical. Rate	d output power.							
CONSTANT CURRENT MODE		V	1000	1500							
1.Max. Line regulation (*7)											
	,		0.05% of rated	•							
2.Max. Load regulation (*13) 3.Ripple r.m.s. @ rated voltage. B.	A/ EU = 1 MU = /*14\	mA	0.08% of rated ≤7	butput current. ≤4							
	// 3⊓Z~1IVI⊓Z (*14)	PPM/°C									
4.Temperature coefficient			70PPM/°C from rated output curre	· · · · · · · · · · · · · · · · · · ·							
5.Temperature stability	,		0.01% of rated lout over 8hrs. interval following 30 n								
6. Warm-up drift			Less than +/-0.15% of rated output curre	nt over 30 minutes following power on.							
ANALOG PROGRAMMING AND N	ONITORING (ISOLATED	FROMT	HE OUTPUT)								
1.Vout voltage programming			0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0	15% of rated Vout.							
2.lout voltage programming (*15)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0	4% of rated lout.							
3.Vout resistor programming			0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linear	ty: +/-0.5% of rated Vout.							
4.lout resistor programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linear	ty: +/-0.5% of rated lout.							
5.Output voltage monitor			0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.								
6.Output current monitor (*15)			0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.								
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT	_									
1. Power supply OK #1 signal			Power supply output monitor. Open collector. Output On: On. Output	·							
2. CV/CC signal			CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximus								
3. LOCAL/REMOTE Analog contro			Enable/Disable analog programming control by electrical signal or d								
4. LOCAL/REMOTE Analog signal			Analog programming control monitor signal. Open collector. Remote: 0	·							
5. ENABLE/DISABLE signal			Enable/Disable PS output by electrical signal or dry contact. 0~0.6V	or short, 2~30V or open. User selectable logic.							
6. INTERLOCK (ILC) control			"Enable/Disable PS output by electrical signal or dry contact. Output	ON: 0~0.6V or short. Output OFF: 2~30V or open."							
7. Programmed signals			Two open drain programmable signals. Maximum voltage 25V, Maxir								
8. TRIGGER IN / TRIGGER OUT sign	als		Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr, Tf=1us Maximum, Min del	nput voltage = 2.5V, Maximum high level input = 5V positive							
	-			ay petween 2 pulses 1ms.							
9. DAISY_IN/SO control signal			By electrical Voltage: 0~0.6V/2~30V or dry contact.								
10. DAISY_OUT/PS_OK #2 signal			4~5V=OK, 0V (500ohm impedance)=Fail								
FUNCTIONS AND FEATURES											
1. Parallel operation			Possible. Up to four (4) identical units in Master/Slave mode. Refer to i	nstruction manual. For more power please consult with Factory.							
2. Series operation			Not Possible	, , , , , , , , , , , , , , , , , , , ,							
3. Daisy chain			Power supplies can be connected in Daisy chain to synchronize their	turn-on and turn-off.							
4. Constant power control			Limits the output power to a proggrammed value. Programming via								
5. Output resistance control			Emulates series resistance. Resistance range: $1\sim1000$ m Ω . Programm								
·			Programmable Output rise and Output fall slew rate. Programming r.	3 1							
6. Slew rate control			communication ports or the front panel.	value							
7. Arbitrary waveforms			Profiles of up to 100 steps can be stored in 4 memory cells. Activation	by command via the communication ports or by the front panel.							
PROGRAMMING AND READBA RS232/485, Optional IEEE(*19)		V	1000 1500								
1.Vout programming accuracy (*1			0.05% of rated	output voltage							
2.lout programming accuracy (*1			0.1% of actual output current-								
3.Vout programming resolution				·							
4.lout programming resolution			0.002 // Or rated output rollage								
5.Vout readback accuracy											
6.lout readback accuracy (*15)			0.1% of rated 0	· •							
	and output voltage)	%									
7.Vout readback resolution (of rat 8.lout readback resolution (of rat		% %	0.011% 0.002%	0.007%							
TO BUILDING REPORTED FOR TAIL		וויי	U.UUZ%	0.003%							
onout readback resolution (or rac	ed output current))										

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

PROTECTIVE FUNCTIONS	V	1000 1500	<u> </u>
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 presetable. Reset by AC input recycle in AutoStart mode, by Power switch, by OUTPUT button, by rear panel or by co	t to CV mode. User mmunication.
2.Over-voltage protection (OVP)		Output shut-down. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel	or by communication
3.Over -voltage programming range	V	5~1212.75 5~1653.75	
4. Over-voltage programming accuracy		+/-1% of rated output voltage	
5.Output under voltage limit (UVL)		Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communi	ication port.
6.Over temperature protection		Shuts down the output. Auto recovery by autostart mode.	
7. Output under voltage protection (UVF	P)	Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recy mode, by Power Switch, by OUTPUT button, by rear panel or by communication.	ycle in autostart
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 (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.	//I, Remote
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 1500m. Non operating	v: 40000ft (12000m)
		Operating, 1000011 (500011), output current detailing 2.76/10011101 1a detailing 1 c/100111 above 1500111. Not operating	, 4000011 (1200011).
MECHANICAL			
1.Cooling		Forced air cooling by internal fans. Air flow direction: From front panel to power supply rear	
2.Weight	kg	Less than 8.5Kg.	
3.Dimensions (WxHxD)	mm	W: 423, H: 43.6, D: 486.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 598.1 (Including busba cover) Refer to Outline drawing.	rs and busbars
4.Vibration		MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1	
5.Shock		Less than 20G, half sine, 11mSec. Unit is unpacked.	
SAFETY/EMC			
1. Safety standards: Safet	y	UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.	
1.1. Interface classification		Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.	
1.2 Withstand voltage		Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communicatoin options): 4000VDC 1min, Output J2, J3, J4, J5, J6, J7 and J9 (communicatoin options): 2000VDC 1min, Output & J8 (sense) - Ground: 3280VI Ground: 2835VDC 1min.	
1.3 Insulation resistance		>100Mohm at 25°C, 70%RH, Output to Ground 500VDC.	
2.EMC standards (*18)		IEC/EN61204-3 Industrial environment.	
2.1. Conducted emmission		IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A. VCCI-A.	
2.2. Radiated emission		IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A	
Z.Z. Naulateu elliissioli		FIEC/ENGIZOT-3 INGUSTRAL ERIVIRORIMENT, MINEX FITABLE H.3 AND 114, FCC FART 13-M, VCCFM	

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

- * 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
 *3: Typ. at Ta=25°C, rated output power.
 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase models.
- *4: For Cases where conformance to various sarety standards (UL, IEL, etc...) is required, to be described as 190-240V *5: 3-Phase 200V models: At 200Va cinput voltage, 3-Phase480V: At 380Vac input voltage. With rated output power. *6: Not including EMI filter inrush current, less than 0.2mSec. *7: 3-Phase 200V models: 170-265Vac, 3-Phase 480V models: 342–528Vac. Constant load. *8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense. *9: Measured with 100:1 probe.

- * 9: Measured with 100:1 probe.
 * 10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 * 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
 * 12: From 90% to 10% of Rated Output Voltage.
 * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 * 14: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz.
 * 15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 * 16: Measured at the sensing point.
 * 17: Max. ambient temperature for using IEEE is 40°C.
 * 18 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

GENESYS[™] 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
1.Rated output voltage(*1)	V	20	30	40	60	80	100-73	150	200-37.3	300	600	1000-7.5	1500-5
2.Rated output current (*2)	A	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
INPUT CHARACTERISTICS	V	20	30 00V models:	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)			30V models:					40/460/400	1/25)				
2 Maximum Input current at 3-Phase, 200V models:		25.5A @ 20		342~320Vd	IC, 4/~03∏Z	(Covers 36)	J/400/413/4	40/400/460	VaC).				
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		13.5A @ 38											
3.Power Factor (Typ.)		0.94 @ 200/380Vac, rated output power.											
4.Efficiency (Typ.) (*5) (*3)	%	91	91	91	91	91	91	91	91	91	92	92	92
5.Inrush current (*6)	A	Less than 6											
CONSTANT VOLTAGE MODE	V			40		00	100	150	200	200	600	1000	1500
1.Max. Line regulation (*7)		20 0.01% of ro	ted output	40	60	80	100	150	200	300	600	1000	1500
2.Max. Load regulation (*8)			ted output		n\/								
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	80	80	80	90	90	150	250	150	450	1100	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	10	8	12	15	15	20	45	60	100	250	500
5.Temperature coefficient			rom rated o										
6.Temperature stability									line, load &	temperatu	ire.		
7.Warm-up drift			.05% of rate										
8.Remote sense compensation/wire (*10)	V	2	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. response time (*11)	mS	30	30	30	50	50	50	50	50	50	100	150	200
Full load (*11)	mS	50	80	80	80	100	100	100	100	100	100	100	100
10.Down-prog. response time No load (*12)		600	500	1000	1000	1000	1500	2500	2000	3000	3000	3000	3000
11. Transient response time		Output set	itput voltag point: 10~1 mS for mod	00%, Local	sense.				inge 10~909 /.	% of rated o	utput curre	nt.	
12.Start up delay		Less than 5											
13.Hold-up time		5mS Typica	ıl. Rated out	put power.									
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output										
2.Max. Load regulation (*13)		0.08% of ra	ted output	current.									
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	≤500	≤300	≤150	≤100	≤70	≤45	≤20	≤15	≤14	≤10	≤5
4.Temperature coefficient	PPM/°C		models: 100 V models: 7						s warm-up. es warm-up.		,		
5.Temperature stability		0.01% of ra	ted lout ove	r 8hrs. inter	rval followi	ng 30 minu	tes warm-u	p. Constant	line, load &	temperatu	re.		
cw 1:6		20V~100V	models: Les	s than +/-0.2	25% of rate	d output cu	rrent over 3	30 minutes f	ollowing po	wer on.			
6.Warm-up drift		150V~1500	V models: L	ess than +/-	-0.15% of ra	ted output	current ove	r 30 minute	s following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROME	LIE OLITBUI	F)										
1.Vout voltage programming			~5V or 0~10	V usor solo	ctable Acci	racy and li	noarity: 1/(1504 of rate	nd Vout				
2.lout voltage programming (*15)			~5V or 0~10										
3.Vout resistor programming									rated Vout.				
4.lout resistor programming (*15)			~5/10KΩ ful										
5.Output voltage monitor			10V, user se					,					
6.Output current monitor (*15)			10V, user se										
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	r\												
1.Power supply OK #1 signal		Dawar sun	alı autaut n	anitar On	on collecte	Output O	o. On Outn	ut Off. Off I	Anvinarum V	olto a o. 201/	Mavimum	Sink Current	. 10 m A
2.CV/CC signal									30V. Maxim				: IUIIIA.
3.LOCAL/REMOTE Analog control												·30V or ope	n
4.LOCAL/REMOTE Analog signal												um Sink Curi	
5.ENABLE/DISABLE signal									30V or oper				enc ronn
6.INTERLOCK (ILC) control									or short. O				
7.Programmed signals									urrent 100n				
8.TRIGGER IN / TRIGGER OUT signals		Maximum Maximum	low level inp	out voltage put = 5V pc	= 0.8V. Min	imum high	level input	voltage = 2.			,		
9.DAISY IN/SO control signal			oetween 2 p al Voltage: 0		W or dry co	ntact							
10.DAISY_IN/SO control signal			, 0V (500Ω ir			mact.							
		1. 3v – OK	, 5 4 (5003211	pcddiice)	rum.								
FUNCTIONS AND FEATURES		-											
1. Parallel operation			p to 4 identi					uction manu	ual.				
2. Series operation			wo identical						1				
3. Daisy chain		II) out or cure	aliae ean ha		in Daisir ch	ain to synch	raniza thai	r turn-on an	nd turn-off.				
is a constant names control													
4. Constant power control		Limits the	output pow	er to a prog	rammed va	lue. Progra	mming via t	he commu	nication por				
5. Output resistance control		Limits the c Emulates s	output poweries resista	er to a prog nce. Resista rise and Ou	rammed va ince range: utput fall sle	lue. Progra 1~1000mΩ ew rate.	mming via t	he commu					
5. Output resistance control 6. Slew rate control		Limits the c Emulates s Programm Programm Programm Profiles of	output poweries resista able Output ing range: 0 ing via come up to 100 ste	er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s	rammed va ince range: utput fall sk 99 V/mS. or ports or fro stored in 4 r	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel	mming via t . Programm Is.	he commu	nication por				
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Limits the c Emulates s Programm Programm Programm Profiles of	output poweries resista able Output ing range: 0 ing via com	er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s	rammed va ince range: utput fall sk 99 V/mS. or ports or fro stored in 4 r	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel	mming via t . Programm Is.	he commu	nication por				
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces)	 V	Limits the c Emulates s Programm Programm Programm Profiles of Activation	putput poweries resista able Output ing range: 0 ing via come up to 100 ste by comman	er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s d via comm	rammed va ince range: utput fall sk 99 V/mS. or ports or fro stored in 4 r	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel	mming via t . Programm Is.	he commu	nication por			1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. RS232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Limits the control Emulates so Programm Programm Programm Profiles of Activation 20 0.05% of ra	poutput poweries resista able Output ing range: 0 ing via come up to 100 ste by comman 30 ted output	er to a prog nce. Resista r rise and Ou .0001~999. munication eps can be s d via comm 40 voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)	 V	Limits the c Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act	output poweries resista able Output ing range: 0 ing via come up to 100 ste by comman 30 ted output ual output	er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s d via comm 40 voltage. rurrent +0.2	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. RS232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Yout programming resolution	 V	Limits the c Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of r	poutput poweries resista able Output ing range: 0 ing via come up to 100 ste by comman 30 ted output	er to a prog nce. Resista rise and Ou .0001~999. munication eps can be s d via comm 40 voltage. uurrent +0.2 t voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)	 V	Limits the definition of the control	output poweries resista able Output ing range: 0 ing via com up to 100 ste by comman 30 ted output ual output cated output	er to a prog nce. Resista rise and Ou .0001~999.9 munication eps can be s d via comm 40 voltage. .urrent +0.2 t voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*17) (*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution	 V	Limits the c Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of r 0.002% of r 0.005% of ra	output poweries resista able Output ing range: 0 ing via com up to 100 ste by comman 30 ted output ual output cated output rated output	er to a prog nce. Resista crise and Ot .0001~999. munication ed via comm 40 voltage. urrent +0.2 t voltage. t current.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Yout programming resolution 4. lout programming resolution 5. Yout readback accuracy	 V	Limits the c Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of r 0.002% of r 0.005% of ra	sutput poweries resista able Output ing via com up to 100 ste by comman 30 ted output ual output cated output tated output ted output	er to a prog nce. Resista crise and Ot .0001~999. munication ed via comm 40 voltage. urrent +0.2 t voltage. t current.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Progra 1~1000mΩ ew rate. A/mS. ont panel. nemory cel ports or fror	mming via t Programm Is. nt panel.	the commuling via com	nication por	ports or fro	ont panel.	0.011%	1500

GENESYS™ 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	20	30	40	60	80	100	150	200	300	600	1000	1500
1. Foldback protection			Output shut Reset by AC	-down wher input recycl	n power supp e in autostar	oly changes i t mode, by P	mode from (ower Switch	CV or Power L , by OUTPUT	imit to CC m	ode or from ear panel or	CC or Power by communi	Limit to CV i	mode. User p	resetable.
2.Over-voltage protection (OVP)			Output shut	-down. Rese	t by AC inpu	t recycle in a					ton, by rear			
3. Over-voltage programming range		٧	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5	5~1212.75	5~1653.75
4. Over-voltage programming accur	acy		+/-1% of rate	ed output vo	ltage.									
5.Output under voltage limit (UVL)								analog progi	ramming. Pr	eset by front	panel or cor	mmunicatio	n port.	
6.Over temperature protection		_			Auto recove									
7.Output under voltage protection ((UVP)		Prevents adj Reset by AC	ustment of input recycl	Vout below I e in autostar	imit. P.S out t mode, by f	out turns Of Power Switc	f during und h, by OUTPU	er voltage co T button, by	ondition. rear panel o	r by commu	nication.		
FRONT PANEL														
1.Control functions			Multiple opt	ions with 2	Encoders									
					nanual adjus	t								
			OVP/UVL/U\											
					VP, UVL,UVP									
			Communica	tion Functio	ns - Selectio	n of LAN,IEE	E,RS232,RS4	185,USB or O	ptional comi	munication i	nterface.			
			Output ON/											
					ns - Selectio									
			Analog Cont	rol Function	ns - Selection	Voltage/res	istive progr	amming, 5V	10V, 5K/10K	programmir	ng			
					ns - Selectio				10V.					
2.Display			Vout: 4 digit	s, accuracy:	0.05% of rate	ed output vo	ltage +/-1 c	ount.						
			lout: 4 digits	, accuracy: (0.2% of rated	output curr	ent +/-1 cou	ınt.						
3.Front Panel Buttons Indications			OUTPUT ON	, ALARM, PR	EVIEW, FINE,	COMMUNIC	ATION, PRO	TECTION,CO	NFIGURATIO	ON, SYSTEM,	SEQUENCER	l.		
4. Front Panel Display Indications			Voltage, Cur RS/USB/LAN	rent, Power, /IEEE comm	CV, CC, CP, E unication, Ti	xternal Volt igger, Load	age, Externa 'Store Cell.	al Current, Ac	ldress, LFP, A	lutostart, Sai	fetstart, Fold	lback V/I, Rei	mote (comm	unication),
ENVIRONMENTAL CONDITIONS														
1.Operating temperature			0~50°C, 100	% load.										
2.Storage temperature			-30~85°C											
3.Operating humidity		_	20~90% RH	(no conden	ration)									
				•										
4.Storage humidity			10~95% RH											
5.Altitude (*17)			Operating: 1	0000ft (300	0m), output	current dera	ting 2%/100	m or Ta dera	ting 1°C/100	m above 200	0m. Non ope	erating: 4000	00ft (12000m	1).
MECHANICAL														
1.Cooling			Forced air co	oling by int	ernal fans. A	irflow direct	ion: From fr	ont panel to	power supp	ly rear.				
2.Weight		kg	Less than 8.5	δKg.										
3.Dimensions (WxHxD)		mm	W: 423, H: 43 W: 423, H: 43	i.6, D: 486.5 i.6, D: 598.1	(Without bu (Including bi	sbars and bu	sbars cover usbars cove), r). Refer to O	utline drawi	ng.				
4.Vibration			MIL-810G. m	ethod 514.6	, Procedure	. test condit	ion Annex C	- 2.1.3.1						
5.Shock					11mS. Unit is									
			EC33 triuii 20	G, Hull Silic,	111113. 011101.	типрискей.								
SAFETY/EMC														
1.Applicable standards: S	afety		UL61010-1, C	SA22.2 No.	51010-1, IEC6	1010-1, EN6	1010-1.							
		- 1	Vout≤50V M	odels: Outp	ut, J1, J2, J3,	J4, J5, J6, J7,	J8 (sense) &	J9 (commun	ication optic	ons) are Non	Hazardous.			
1.1. Interface classification			60≤Vout≤15	00V Models	: Output & J8	(sense) are	hazardous.	J1. J2. J3. J4. J	15. J6. J7 & J9	(communic	ation option	s) are Non H	azardous.	
				odels: Input	- Output &): 4242VDC 1			
			60V≤Vout≤1	00V Models (sense) - J1,	: Input – Out J2, J3, J4, J5,	put & J8 (sei J6, J7 & J9 (c	nse), J1, J2, J ommunicati	3, J4, J5, J6, J7 on options):	7 & J9 (comm 850VDC 1mi	nunication o in, Output &	ptions): 4242 J8 (sense) - G	VDC 1min, Ground: 1500	VDC 1min,	
1.2 Withstand voltage			100V <vout≤ Output & J8 Input - Grou</vout≤ 	(sense) - J1,	J2, J3, J4, J5,	itput & J8 (si J6, J7 & J9 (c	ense), J1, J2, ommunicati	J3, J4, J5, J6, on options):	J7 and J9 (co 1275VDC 1m	mmunication nin, Output &	on options): 4 & J8 (sense) -	1242VDC 1mi Ground: 250	in, IOVDC 1min.	
			1000V <vout Output & J8 Input - Grou</vout 	(sense) - J1,	J2, J3, J4, J5,	Output & J8 J6, J7 & J9 (c	(sense), J1, J ommunicati	2, J3, J4, J5, J on options):	6, J7 and J9 (2000VDC 1n	(communica nin, Output &	tion options) & J8 (sense) -): 4000VDC 1 Ground: 328	min, 30VDC 1min.	
1.3.Isolation resistance			100Mohm at	t 25°C, 70%F	RH. Output to	Ground 50	00VDC							
2.EMC standards (*18)					l environme			CC Part 15-A	VCCI-A.					
2.1.Conducted emission					l environme					Ί-Δ				
2.2.Radiated emission	 	_			l environme		tubic II.J dl	iu i i i , FCC Pc	,, , , , , , , , , , , , , , , , , , ,					
L.z.nduidieu eiiiission			ILC/ENDIZUZ	industřía د-+	ii erivironme	iii.								

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

NOTES:

**: Coming soon

- *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
 *3 Typ. at Ta=25°C, rated output power.
 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models.
 and 380~480Vac (50/60Hz) for 3-Phase 480V models.
 *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
 *6: Not including EMI filter inrush current, less than 0.2mS.
 *7: 3-Phase 200V models: T70~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.
 *8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
 *9: For 20V~150V models: Measured with JETIA RC-913TC (1:1) probe. For 200~1500V models: Measured with 100:1 probe.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 *11: From 10% to 90% of Rated Output Voltage at rated resistive load.
 *12: From 90% to 10% of Rated Output Voltage.
 *13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *14: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W SHz~1MHz.
 *16: Measured at the sensing point.
 *17: Max. ambient temperature for IEEE is 40°C.
 *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

GENESYS[™] **GSP10kW SERIES SPECIFICATIONS**

New Control voltage*** V	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
A													_				
Support purpose						_					_			_		_	
Private college (Private) Private (1997 Private) Private) Private (1997 Private) Private (1997 Private) Private) Private (1997 Private) Private) Private) Private (1997 Private)	3.Rated output power					_					_		_			_	
Private college (Private) Private (1997 Private) Private) Private (1997 Private) Private (1997 Private) Private) Private (1997 Private) Private) Private) Private (1997 Private)			v	10	20	30	40	50	60	80	100	150	200		400	500	
Pinker 1809 models 20-16 Miles 20-16	IN OT CHARACTERISTICS		•	_							100	150	200	300	100	1 300	000
Prise April Prise Prise April Prise Prise April Prise Prise April Prise Pris	1.Input voltage/freg. 3 phase, 3 w	rire + Ground (*4)		-							ac)						
Make a propose current 1979												80Vac)					
March Policy Po		3-Phase, 200V models:		35A @ 20	0Vac												
		3-Phase, 400V models:]	18.4A @ 3	80Vac												
Settlement Part P	100701080	3-Phase, 480V models:		18.4A @ 3	80Vac												
Constant Produce A	3.Power Factor (Typ)			0.94 @ 20	0/380Vac	, rated out	tput powe	er.									
Mar. Line regulation (**)	4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
CORSTANT VICENSE MODE V	5.Inrush current (*6)		Α	Less than	100A												
Max. Line regulation (17)	6.AC line phase imbalance		%	< 5%													
2.7 2.7	CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Steple can subset 19 mol 75 75 75 75 75 75 75 7	1.Max. Line regulation (*7)			0.01% of r	rated outp	out voltag	je										
Rippiet and State - MMILE (**)	2.Max. Load regulation (*8)			0.01% of r	rated outp	out voltag	je +5mV										
Stemperature coefficient SPAVC S	3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
All the Chartest stability	4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
West Shane 100% of right output village - 2mV ew 3 Dimitises following power in a state of the company of the	5.Temperature coefficient		PPM/°C	50PPM/°C	from rate	ed output	voltage, f	following 3	30 minute	s warm-up	٥.						
Billing tear in the segment and the segment	6.Temperature stability			0.01% of r	rated Vou	t over 8hr	s interval f	following:	30 minute	s warm-up	p. Constai	nt line, loa	d & temp.				
Map Description Part Description Part Description Part Description D	7. Warm-up drift			Less than	0.05% of	rated out	put voltaç	je+2mV ov	er 30 mini	utes follov	ving pow						
The Description of Properties Full Load (*1) mS 50 50 80 80 80 90 100		vire (*10)	_													_	_
Internative reports Elimic No load (**12)	9.Up-prog. Response time (*11)					_					_						
1.1 Transient response time	10.Down-prog_response time-					_					_		_			_	_
10-1096, Local sense. Less than 7 ins. for models above 109/.		No load (*12)	mS	_													
Constant Current Mode Constant Current Consta	11.Transient response time		mS	Time for o	output vo	Itage to re	ecover wit	hin 0.5% o	fits rated	output for	r a load cl	nange 10~	90% of rat	ted outpu	t current. (Output set	t-point:
Constant Current Mode Constant (Current Current Cu				_		ise. Less t	11011 11113,1	- models	up to and	meiuaing	۱۰۰۷. ۷n و	וטו ,כוו	ucis above	: 1000.			
Max. Load regulation (173)			Jec	Tress ruan	, 260												
Max. Load regulation (*15)	CONSTANT CURRENT MODE																
A 1500 1200 1500 1500 1500 1500 1500 1500 1500 170 161	1.Max. Line regulation (*7)			0.05% of	rated out	put curren	nt.										
A 12.00 70 70 70 70 70 70 70	2.Max. Load regulation (*13)			0.08% of	rated out	put currer	nt.										
104-1007 106PPM/C from a tated output current, following 30 minutes warm-up.			mA			_			-							_	_
Simple S	4.Ripple r.m.s. @ 100% rated voltage	e. B.W 5Hz~1MHz. (TA25°C)	mA										23	7.5	7.5	8	6
Size Description Committee C	5.Temperature coefficient		PPM/°C	-													
10V-100V model: Less than +/ 0.25% of rated output current over 30 minutes following power on. 150V-600V. Less than +/ 0.15% of rated output current over 30 minutes following power on. 150V-600V. Less than +/ 0.15% of rated output current over 30 minutes following power on. 150V-600V. Less than +/ 0.15% of rated output current over 30 minutes following power on. 150V-600V. Less than +/ 0.15% of rated vout.								•					10:				
Naminus 1509600Y. Less than +/-0.15% of rated output current over 30 minutes following power on.	6.1emperature stability																
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1. Mout voltage programming	7. Warm-up drift						_	_	-								
1.9ut violage programming				1300~600	JV: Less th	Idii +/-0.13	5% OI Tale	u output c	urrent ove	er 30 minu	tes iollov	virig powe	1011.				
0-100%, 0-57 (Nohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.	ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROMT														
O-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity; +/-0.5% of rated vout.	1.Vout voltage programming																
About resistor programming (*15)	2.lout voltage programming (*15	5)	_														
Couptu rollage monitor Couptur Voltage monitor Couptur Voltage Couptur Current monitor (*15) Couptur Current **	3.Vout resistor programming																
Signals		i)									ity: +/-0.5	of rated %5	l lout.				
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply (OK #1 signal																	
1. Power supply OK #1 signal	6.Output current monitor (*15)			0~5V or 0	~10V, use	r selectab	le. Accura	icy: +/-0.59	%. Of rated	l lout.							
C. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	Γ)														
Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.	1. Power supply OK #1 signal			Power su	pply outp	ut monito	or. Open co	ollector. O	utput On:	On. Outpu	ut Off: Off	f. Maximur	n Voltage:	30V, Maxi	mum Sink	Current: 1	10mA.
4. LOCAL/REMOTE Analog signal	2. CV/CC signal			CV/CC Mc	nitor. Op	en collect	or. CC mo	de: On. CV	mode: Of	f. Maximu	m Voltag	e: 30V, Max	ximum Sin	k Current	: 10mA.		
5. ENABLE/DISABLE signal		ı															
Enable/Disable PS output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open.	4. LOCAL/REMOTE Analog signal		_													ink Currer	nt: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 11. Parallel operation 12. Series operation 13. Daisy chain 14. Consult with Factory 15. Output resistance control 15. Output resistance control 15. Output resistance control 15. Slew rate control 16. Slew rate control 17. Arbitrary waveforms 17. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 17. Profiles of uptout voltage 18. Triggramming accuracy (*16) 18. Os9% of rated output voltage 18. Triggramming resolution 19. Os9% of rated output voltage 19. Os0% of rated output voltage 17. Voltage input voltage 25. Maximum wint high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input voltage 19. Swimmum, Min delay between 2 pulses 1ms. 19. Dalisy Ininimum high level input volt	5. ENABLE/DISABLE signal		_														
Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr, Tf=1 us Maximum, Min delay between 2 pulses 1 ms. 9. DAISY_IN/50 control signal	6. INTERLOCK (ILC) control																
edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. ### Discription of the properties of the programming resolution of the programming resolution for programming resolution in 20,3% of rated output voltage 4.00,00% for ated output voltage 4.00,00% for fated output voltage 4.00,000% for fated output voltage 4.00,00% for fated for fate	/. Programmed signals																
9. DAISY_IN/SO control signal	8. TRIGGER IN / TRIGGER OUT sign	nals		Maximu	m low lev	vel input	voltage =	= 0.8V,Mii [rTf=1116]	nımum hi	ign level i	Input vo	Itage = 2.	.5V, Maxir	mum hig	n Ievel in	put = 5V	positive
10. DAISY_OUT/PS_OK #2 signal	9. DAISY IN/SO control signal							_		., uel	-, 5000	-c 2 pul	11113.				
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Consult with Factory 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 7. Arbitrary waveforms 7. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 7. Usu trongramming accuracy (*15) 7. Output residance control 8. Output residance control 9. Output fall slew rate. Programming range: 0.002% of rated output voltage 9. Output fall slew rate. Programming range: 0.001 - 999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 8. Output programming accuracy (*15) 8. Outprogramming resolution 9. Outprogramming resolution 9. Output output voltage 9. Output voltage 9. Output current 9. Ou																	
1. Parallel operation				,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,											
2. Series operation				D- "'	Unit 1	- (4) : 1	1.000	-14- 5				L Fa :					
3. Daisy chain			_				icai GSP ui	nits. For m	ore power	piease co	nsult wit	n Factory.		-			-
4. Constant power control Limits the output power to a proggrammed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance ange: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, 85.232/485, Optional IEEE (*19)(*20) interfaces) 0.05% of rated output voltage 2. Lout programming accuracy (*16) 0.3% of rated output voltage 2. Lout programming resolution 0.002% of rated output current 3. Vout programming resolution 0.002% of rated output ucurrent 0.002% of rated output current							octod:- D	naiov sk - !:	to com -l-	nnizo +L - '	r turn -:	and +					
5. Output resistance control														the front :	nanel		
	· · · · · · · · · · · · · · · · · · ·		_										<u> </u>				
Communication ports or the front panel.																	the
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 accuracy (*15) 3. Vout programming resolution 4. O.002% of rated output voltage 4. Iout programming resolution 5. Vout readback accuracy 6. Iout readback accuracy 6. Iout readback accuracy 7. Vout readback resolution (of rated output voltage) 8. O.01% 0.06% 0.004% 0.003% 0.003% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 0.002%	6. Slew rate control										ange. 0.0		> v/1115cc.			y via	
RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 80 100 150 200 300 400 500 600 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.3% of rated output voltage 2.lout programming resolution	7. Arbitrary waveforms			Profiles o	f up to 10	0 steps ca	n be store	d in 4 mer	nory cells.	Activation	n by com	mand via t	he commu	unication	ports or b	y the front	t panel.
RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 80 100 150 200 300 400 500 600 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.3% of rated output voltage 2.lout programming resolution			W	10	20	30	40	F0		00	100	150	300	300	400	500	600
2.lout programming accuracy (*15) 0.3% of rated output current 3.Yout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Yout readback accuracy (*15) 0.2% of rated output current 7.Yout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 9.38 of rated output current 9.49 of rated output voltage 9.50 of rated output voltage 9.61 of rated output voltage 9.70 of rated output voltage 9.70 of rated output voltage	RS232/485, Optional IEEE (*19)(*20) Interfaces)						50	60	80	100	150	200	300	400	500	600
3.Vout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy 0.2% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%																	
4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 8. 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%		15)															
5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%																	
6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%																	
7.Vout readback resolution (of rated output voltage)																	
	·			U.270 UI T													T = ====
מלטטט		ted output voltage)	0%	0.01106	0 006%	0.00404	0.0030%	0 0030%	0.00204	0 0020%	0.0110/-	0 007%	0.005%	0.00404	0.0030%	0 0030%	() ()())0/-
	7.Vout readback resolution (of rate										_		_				

GENESYS[™] **GSP15kW SERIES SPECIFICATIONS**

OUTPUT RATING	GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	A	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
		3-Phase, 2													
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 4											_		
2 81 2004 1		3-Phase, 4		els: 342~5	28Vac, 47 ⁻	~63Hz (Co	vers 380/4	100/415/4	40/460/48	0Vac)					
2. Maximum Input current at 3-Phase, 200V mode 3-Phase, 400V mode		52.5A @ 20 27.6A @ 38													
100% load 3-Phase, 480V mode		27.6A @ 38													
3.Power Factor (Typ)		0.94 @ 200		rated out	out power	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	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	ted outp	ut voltage			•								
2.Max. Load regulation (*8)		0.01% of ra	ated outp	ut voltage	+5mV										
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C	50PPM/°C													
6.Temperature stability		0.01% of ra									å & temp.				
7. Warm-up drift		Less than					1	T			_			_	
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS mS	30 50	30 50	30 80	30 80	50 80	50 80	50 100	50 100	50 100	50 100	50 100	100 150	100 200	100 200
10.Down-prog.response time: Full load (*11) No load (*12)	mS mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
										ange 10~9					
11.Transient response time	mS									S, for mod					
12Start up delay	Sec	Less than 7	7 Sec												
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.05% of ra				1 50	00	- 00	100	150	200	300	100	500	000
2.Max. Load regulation (*13)		0.08% of ra													
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (*1	1) mA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA 25	C) mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5.Temperature coefficient	PPM/°C	10V~100V	100PP	M/°C from	rated ou	tput curre	nt, follow	ing 30 miı	nutes war	m-up.					
5. Temperature coefficient	PPIVI/ C	150V~600		I/ºC from											
6.Temperature stability		0.01% of ra													
7. Warm-up drift										following _l					
		150V~600	V: Less tha	an +/-0.15	% of rated	output ci	urrent ove	r 30 minu	tes follow	ing power	ron.				
ANALOG PROGRAMMING AND MONITORING (ISOLAT	D FROM 1	THE OUTPU	T)												
1.Vout voltage programming		0~100%, 0													
2.lout voltage programming (*15)		0~100%, 0													
3.Vout resistor programming		0~100%, 0													
4.lout resistor programming (*15)		0~100%, 0							ity: +/-0.5	% of rated	lout.				
5.Output voltage monitor (*23)		0~5V or 0~													
6.Output current monitor (*15) (*23)		0~30 01 0	~iov, user	selectable	e. Accurac	.y: +/-0.5%	o. Oi rateu	iout.							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUT	_														
1. Power supply OK #1 signal		Power sup												Current:	I0mA.
2. CV/CC signal		CV/CC Mo												loron	
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal		Enable/Dis													nt: 10m A
5. ENABLE/DISABLE Signal		Enable/Di												mik curre	it. IUIIIA.
6. INTERLOCK (ILC) control	+	Enable/Di											ogic.		-
7. Programmed signals		Two open											7V zener)		
8. TRIGGER IN / TRIGGER OUT signals		Maximum	low level	input volt	age = 0.8	V,Minimu	m high lev	el input v	oltage = 2					sitive edg	e trigger:
		tw=10us n						n 2 pulses	1ms.				-		
9. DAISY_IN/SO control signal		By electric					t.								
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK,	UV (5000	nm imped	ance)=Fa	II									
FUNCTIONS AND FEATURES															
1. Parallel operation		Possible. L	-	-	al GSP un	its. For mo	ore power	please co	nsult with	Factory.					
2. Series operation		Consult w													
3. Daisy chain		Power sup										de a C			
4. Constant power control 5. Output resistance control		Limits the Emulates												ol.	
										e commun 001~999.9					the
6. Slew rate control		communic					ate. rrogr	amming f	ange: 0.00	JU1~339.9	v/III5eC.	OI A/ITISE	c. r rograf	mmy via	ше
7. Arbitrary waveforms		Profiles of					nory cells.	Activatio	n by comr	nand via th	ne commi	unication	ports or b	y the fron	panel.
PROGRAMMING AND READBACK (USB, LAN,															
RS232/485, Optional IEEE (*19)(*20) Interfaces)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Vout programming accuracy (*16)		0.05% of ra	ated outp	ut voltage											
2.lout programming accuracy (*15)		0.3% of rat													
3.Vout programming resolution		0.002% of					_	-			-	-			
4.lout programming resolution		0.002% of													
5.Vout readback accuracy		0.05% of r			9								-		
6.lout readback accuracy (*15) 7.Vout readback resolution (of rated output voltage)	%	0.2% of rat 0.011%		0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%
8.lout readback resolution (of rated output voltage)	96	0.011%	0.006%	0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	_	0.005%	0.004%	0.003%	0.003%	0.002%
o.iout readback resolution (or rated output cultetit))	70	U.U 1Z 70	L 0.00370	0.00370	0.00470	0.00470	0.0005/0	0.000/0	1 0.000%	U.UIZ70	0.00270	0.00370	0.00370	0.00370	0.00370

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10 20	30	40	50	60	80	100	1	50	200	300	400	500	600
1.Foldback protection			Output shut-do User presetable	Reset by A	C input rec	ýcle in aut	ostart mo	de, by P	ower Swi	tch, by	OUTPL	T buttor	n, by rear	oanel or b	y commun	e. ication.
2.Over-voltage protection (OVP)			Output shut-do													
3.Over -voltage programming ra		V	0.5~12 1~24			5~55.125	5~66.15	5~88.	2 5~110.	25 5~1	65.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5
4. Over-voltage programming ac			+/-1% of rated o													
5.Output under voltage limit (UV 6.Over temperature protection	L)		Prevents from a Shuts down the						g prograr	nmıng.	Preset	by front	panel or	communi	cation port	
7. Output under voltage limit (UV	11)		Prevents adjustr				art mode.									
7. Output under voltage limit (ov	L)							Ott 1;				4: D			-l- t	-44
8. Output under voltage protecti	on (UVP)		Prevents adjustr mode, by Power	Switch, by	OUTPUT b	utton, by r	ear panel	or by co	mmunica	tion.	conai	tion. Kes	et by AC	nput recy	cie in auto:	start
FRONT PANEL																
1.Control functions			Multiple options	with 2 Enc	oders											
			Vout/Iout/Powe													
			OVP/UVL/UVP m													
			Protection Func													
			Communication			of LAN,IEE	E,RS232,F	RS485,U	SB or Opti	onal co	mmur	ication i	nterface.			
			Output ON/OFF.			(0 10		ID.								
			Communication Analog Control										ng.			
			Analog Control								or bio	grannini	ıy			
2.Display			Vout: 4 digits, ac						119 5 4/ 101	<i>r</i>						
2.0.35.03			lout: 4 digits, ac													
3.Front Panel Buttons Indications	5		OUTPUT ON, AL						ION,CON	IGURA	TION, S	YSTEM,	SEQUENC	ER.		
			Voltage, Current	Power, CV	. CC. CP. Ex	ternal Volt	age. Exte	rnal Cur	rent. Addı	ess. LF	P. Auto	start. Saf	etstart. F	oldback V	/I. Remote	
4. Front Panel Display Indications	; 		(communication), RS/USB/L	AN/IEEE co	ommunica	tion, Trigg	ger, Loac	l/Store Ce	II.	771010					
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 100% lo	ad.												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% RH (no	ondensatio	on).											
4.Storage humidity		%	10~95% RH (no	ondensatio	on).											
5.Altitude (*17)			Operating: 1000	Oft (3000m)	, output cu	urrent dera	ting 2%/1	00m or	Ta deratin	g 1°C/1	00m al	ove 200	0m. Non	perating	: 40000ft (1	2000m).
MECHANICAL																
1.Cooling			Forced air coolir	g by intern	al fans. Air	flow direc	tion: from	Front p	anel to po	ower su	pply re	ear				
2.Weight	GSP 10kW	kg	Less than 15.5kg													
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H: 88, D W: 423, H: 88, D	441.5 (With 640 (Includ	out busba ing busbar	rs and busb rs and busb	ars cover) ars cover,	, and stra	in relief) (F	Refer to	Outline	e drawing	g).			
2.Weight	GSP 15kW	kg	Less than 23.5kg													
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H: 132.5 W: 423, H: 132.5						d strain re	lief) (Re	fer to (Outline o	lrawing).			
4.Vibration			MIL-810G, meth	od 514.6, Pro	ocedure I,	test condit	ion Anne	x C - 2.1.	3.1							
5.Shock			Less than 20G, h	alf sine, 11n	nSec. Unit	is unpacke	d.									
SAFETY/EMC																
	Cafoty	T	UL61010-1, CSA2	2.2 No. 1.614	010 1 IEC	61010 1 54	II 61010 1									
1.Applicable standards: 1.1. Interface classification	Safety		Vout≤50V Mode	ls: Output, .	J1, J2, J3, J4	4, J5, J6, J7,	J8 (sense)) & J9 (cc	mmunica	ition op	tions)	are Non	Hazardou	S.		
interface classification			60≤Vout≤600V I										-			
1.2 Withstand voltage			Vout≤50V Mod Input - Ground: 60V≤Vout≤100' Output & J8 (se Output & J8 (se 100V <vout≤60' &="" (se="" -="" ground:<="" input="" j8="" output="" td=""><td>2835VDC / Models: I nse) - J1, onse) - Gro V Models: nse) - J1, onse) - Gro 2835VDC</td><td>1min. Input – Ou J2, J3, J4, und: 1500 Input – O J2, J3, J4, und: 2500 1min.</td><td>utput & J8 , J5, J6, J7 OVDC 1mir Output & J8 , J5, J6, J7 OVDC 1mir</td><td>(sense), 7 & J9 (co 1, Input - 8 (sense), 7 & J9 (co</td><td>J1, J2, ommuni Ground , J1, J2, ommuni</td><td>J3, J4, J5 cation op : 2835VE J3, J4, J cation op</td><td>i, J6, J itions): IC 1mi</td><td>7 & J9 850VI</td><td>(commu OC 1min</td><td>inication</td><td>options):</td><td>4242VDC</td><td>1min,</td></vout≤60'>	2835VDC / Models: I nse) - J1, onse) - Gro V Models: nse) - J1, onse) - Gro 2835VDC	1min. Input – Ou J2, J3, J4, und: 1500 Input – O J2, J3, J4, und: 2500 1min.	utput & J8 , J5, J6, J7 OVDC 1mir Output & J8 , J5, J6, J7 OVDC 1mir	(sense), 7 & J9 (co 1, Input - 8 (sense), 7 & J9 (co	J1, J2, ommuni Ground , J1, J2, ommuni	J3, J4, J5 cation op : 2835VE J3, J4, J cation op	i, J6, J itions): IC 1mi	7 & J9 850VI	(commu OC 1min	inication	options):	4242VDC	1min,
1.3 Insulation resistance			GSP10kW/15kW:	60 Mohm a	t 25°C, 70°	%RH. Outp	ut to Gro	und 50	OVDC							
2.Conducted emmision			IEC/EN61204-3 I	ndustrial en	vironmen	t, Annex H	table H.1	, FCC Pa	rt 15-A, V	CCI-A.						
3.Radiated emission			IEC/EN61204-3 I								CCI-A.					
J.Naulateu elliissioli																

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 10k1/°C above 40°C. GSP 15kW: Derate 15k1/°C above 40°C.

 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase **

 *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

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

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

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

 *9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe.

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

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

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

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

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

 *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 *16: Measured at the sensing point.

 *17: For 10V model 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.

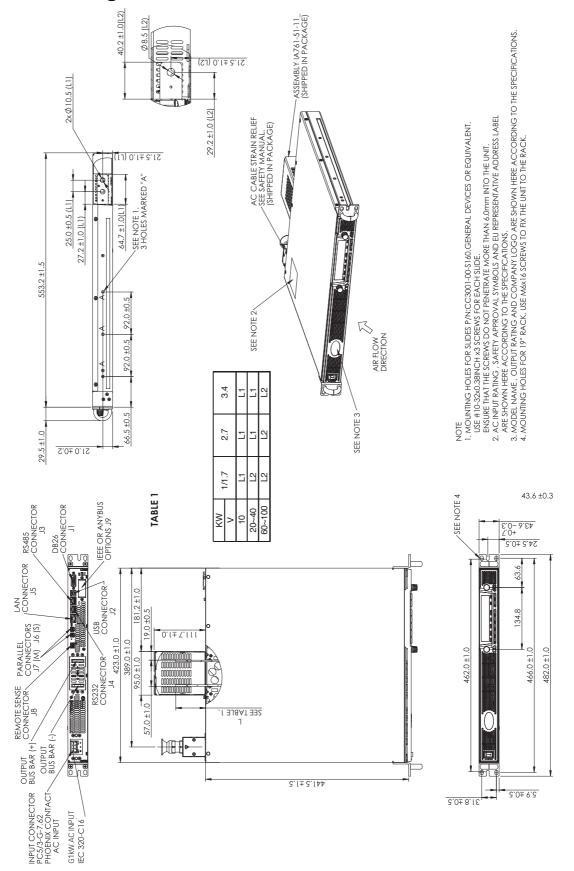
 *19:Max. ambient temperature for using IEEE is 40°C.

 *20:GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 900A up to 30°C.

 *21: For 10V model only: For 3-Phase 200V efficiency is 88.5%

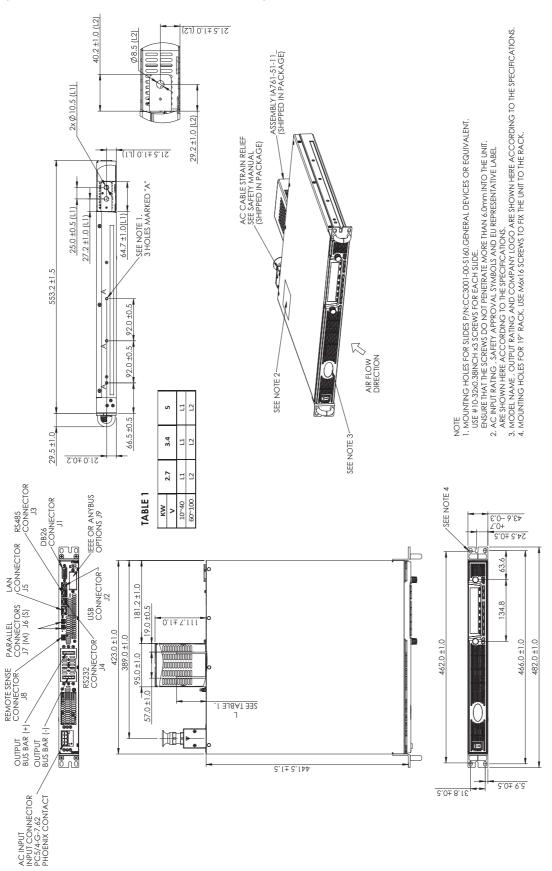
 *22: Typ, at Ta=25°C, rated output power.

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



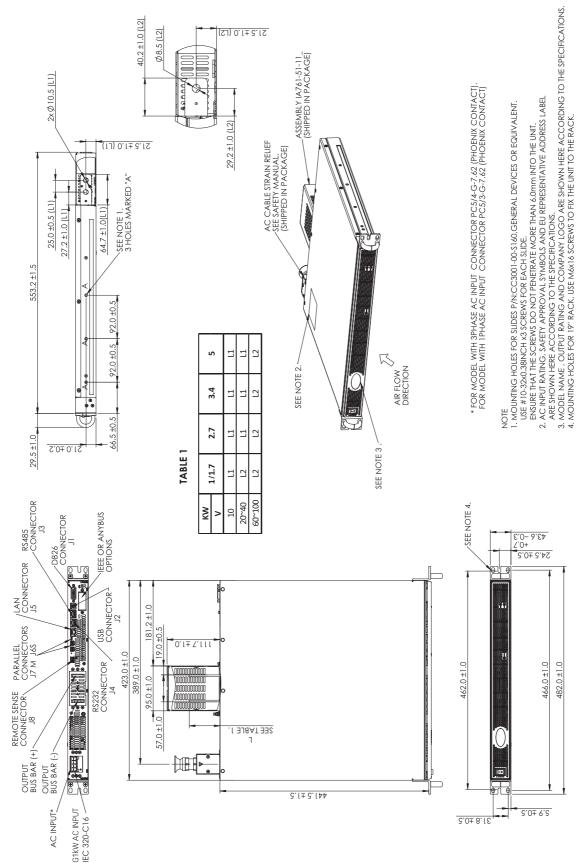
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase

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

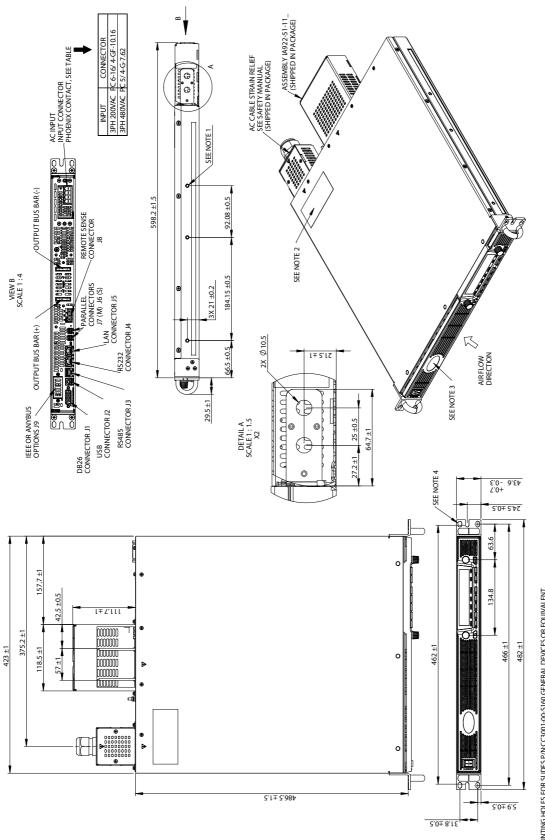


Outline Drawing GENESYS™ GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

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



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



G+7.5KW 20V~100V

1. MOUNTING HOLES FOR SLIDES P/NCC3001-00-5160,GENERAL DEVICES OR EQUIVALENT.

US# #10-320.437 SINLAR 3 SCREWS FOR THE ACH SLIDE.

ENSURE THAT THE SCREWS DO NOTO FEMERATE MORE THAN 60mm INTO THE UNIT.

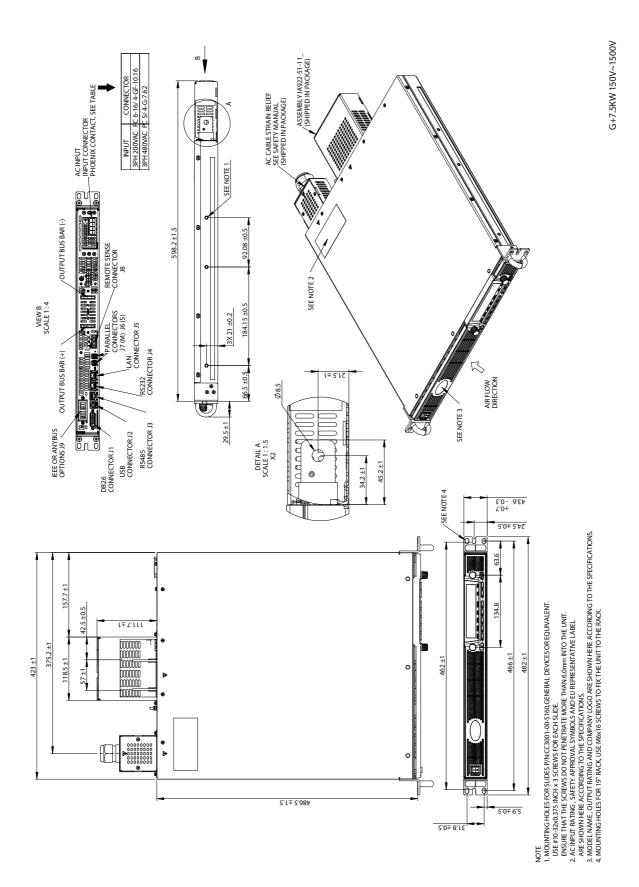
2. AC INPUT RATING, SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE LABEL
ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.

3. MODEL NAME, OUTPUT RATING AND COMPANY LOGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.

4. MOUNTING HOLES FOR 19" RACK, USE MØx16 SCREWS TO FIX THE UNIT TO THE RACK.

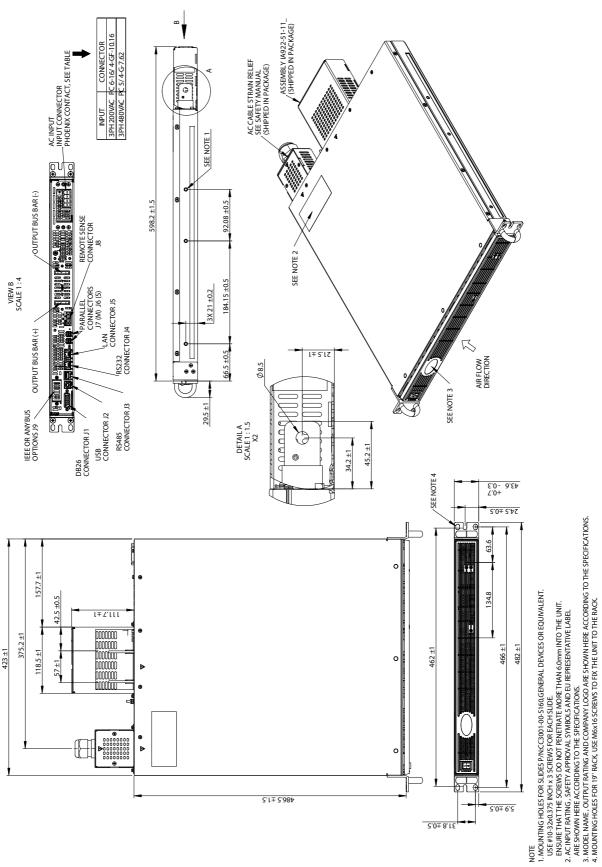
Outline Drawing GENESYS™ G7.5kW - HV (150V-1500V) 3-Phase

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



Outline Drawing GENESYS™ GB7.5kW ATE Version

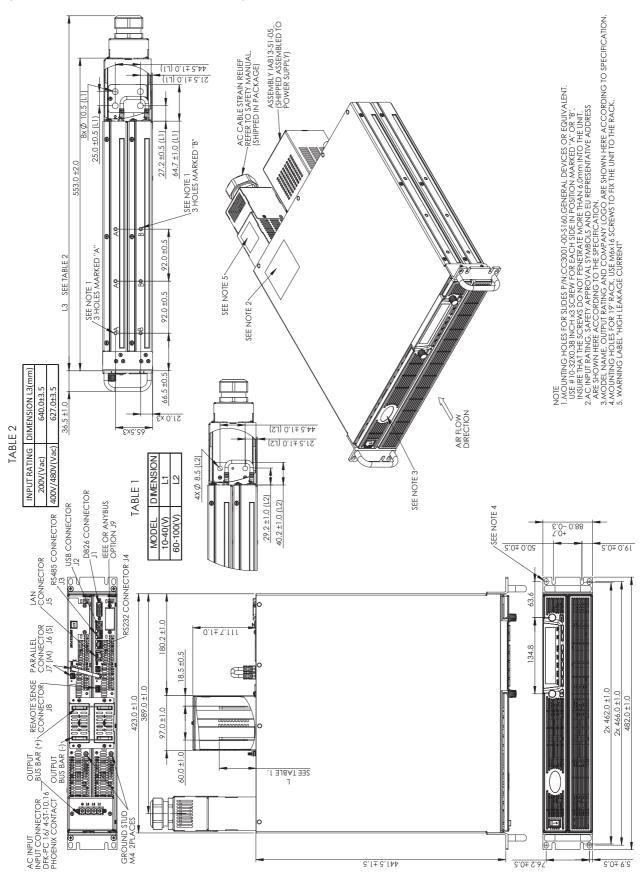
(includes G+5kW models: 1000V & 1500V).



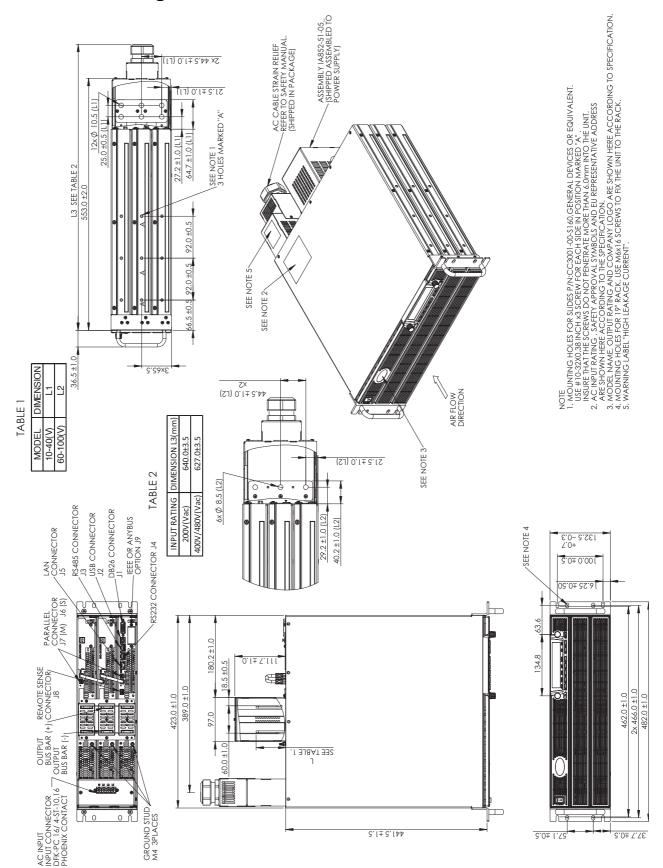
G+7.5KW BLANK 150V~1500V

Outline Drawing GENESYS™ GSP10kW

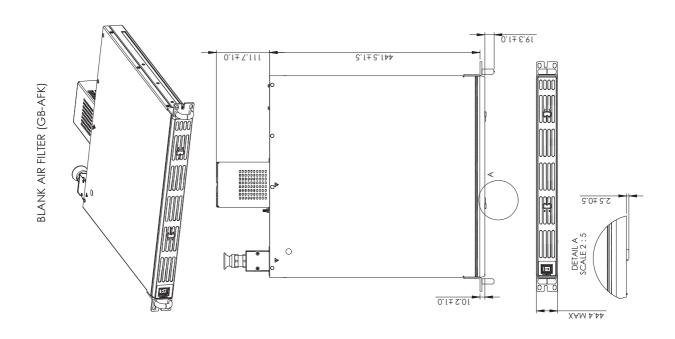
(includes G+5kW models: 1000V & 1500V).

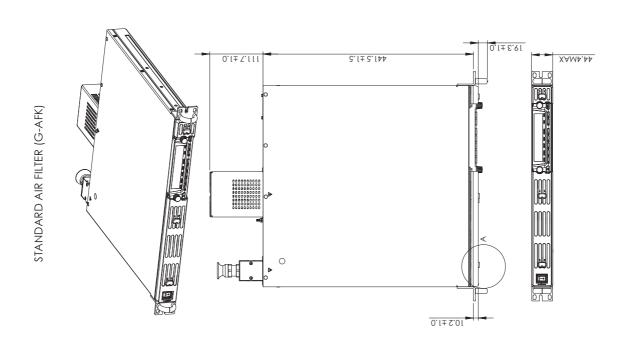


Outline Drawing GENESYS™ GSP15kW



Outline Drawing **G**ENESYS[™] Air Filter Kit



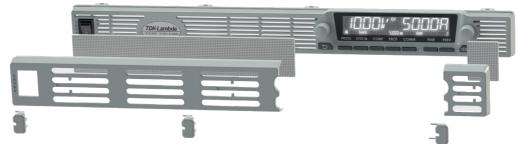


Front Panel Air Filter Assembly

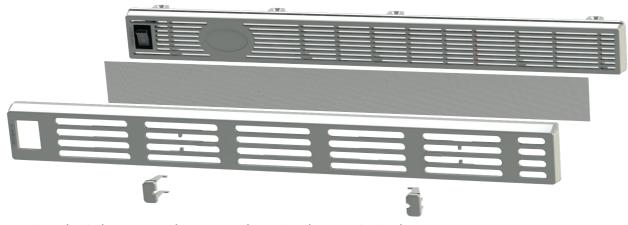
Front panel dust cover is available for dusty air environment applications

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)

TDK·Lambda



A761-04-06 Rev. M





