



# **GENESYS**<sup>™</sup> G Series

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

# ! Advanced Features Built-In!

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





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 (5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg</li>
- Wide Range of popular worldwide AC inputs:
  - G1kW/1.7kW: 1ø (85~265VAC)
  - G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
  - G5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- · Arbitrary Waveform Generator with Auto-Trigger Capability
- · Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows<sup>™</sup>/CVI, LabVIEW<sup>™</sup>, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 30kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

#### **Applications**

**G**ENESYS<sup>™</sup> power supplies have been designed to meet the demands of a wide variety of applications.

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

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

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

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

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



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

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



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

# **GSP10kW Front Panel Description**



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

# **GSP10kW Rear Panel Description**



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

## **GSP15kW Front Panel Description**



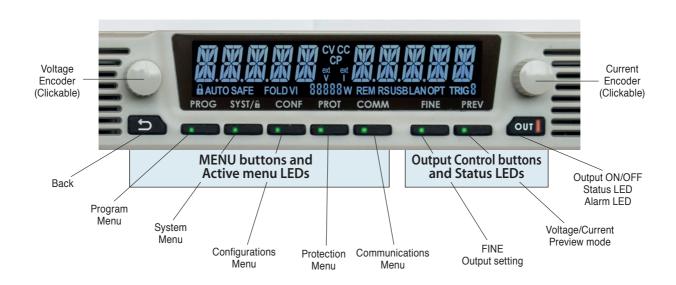
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

# **GSP15kW Rear Panel Description**

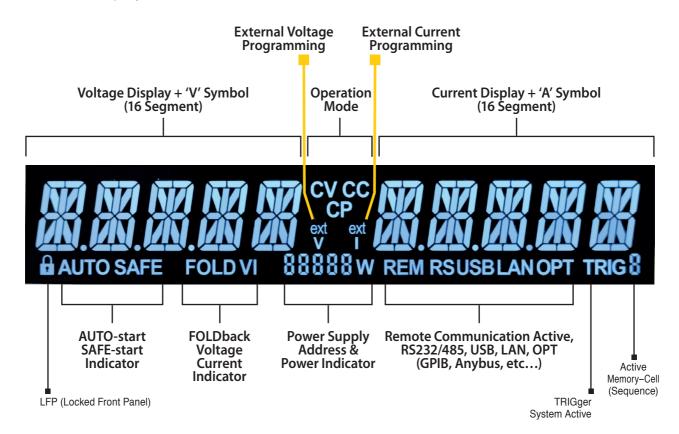


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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



# GENESYS<sup>™</sup> G&GSP Series Blank Front Panel (ATE version) POWER (LED) REM (LED) POWER (LED)

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

The Blank Front Panel option has all the standard product functions and features except the display.

The power supply can be controlled via the rear panel Remote digital interface

(LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

# **G**ENESYS™ Parallel and Series Configurations

## Parallel operation - Master/Slave:

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

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

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

Order P/N: G/P - 6U

# 

### **Series operation**

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

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

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

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



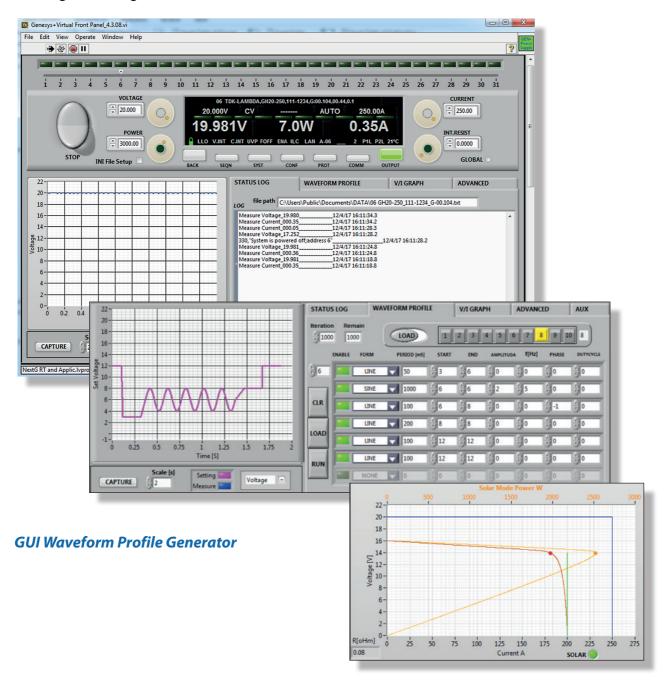




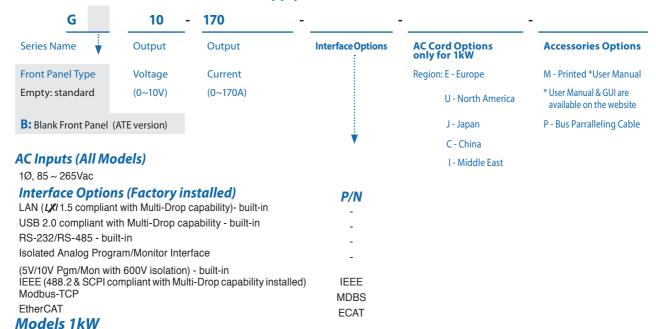
# **Graphical User Interface**

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

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



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



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

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

## Models 1.7kW

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 **G**ENESYS<sup>™</sup> power supplies.

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

#### 3. Bus Paralleling cable

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

#### 4. User Manual

Printed User Manual	G/M

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

G 10 340 Series Name Output Interface Options **AC Input Options Accessories Options** Output Front Panel Type Voltage Current 1P208 (Single Phase 170~265VAC) M - Printed \*User Manual \* User Manual & GUI are Empty: standard (0~340A) (0~10V) 3P208 (Three Phase 170~265VAC) available on the website **B:** Blank Front Panel (ATE version) 3P400 (Three Phase 342~460VAC) P - Bus Parralleling Cable 3P480 (Three Phase 342~528VAC) P/N *Interface Options (Factory installed)* LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in

# **Models G2.7kW**

Modbus-TCP

EtherCAT

Isolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in IEEE (488.2 & SCPI compliant with Multi-Drop capability installed)

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

IEEE

**MDBS** 

**ECAT** 

#### Models G3.4kW

Model	Output Voltage VDC	Output Current ( A )	Output Power ( W )	Model	Output Voltage VDC	Output Current ( A )	Output Power ( W )
G10-340	0~10V	0~340	3400	G80-42	0~80V	0~42	3360
G20-170	0~20V	0~170	3400	G100-34	0~100V	0~34	3400
G30-112	0~30V	0~112	3360	G150-22.5	0~150V	0~22.5	3375
G40-85	0~40V	0~85	3400	G300-11.5	0~300V	0~11.5	3450
G60-56	0~60V	0~56	3360	G600-5.6	0~600V	0~5.6	3360

## **Accessories**

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

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

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

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

Daisy-chain up to 31 **GENESYS™** power supplies.

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

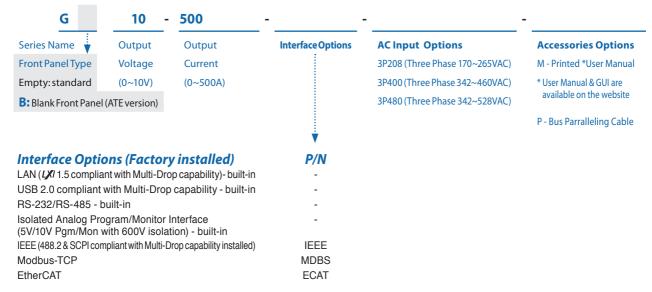
## 3. Bus Paralleling cable

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

#### 4. User Manual

Printed User Manual	G/M

# How to order G5kW - Power Supply Identification / Accessories



#### **Models 5kW**

Model	Voltage (VDC)	Current (A)	Power (W)	М
G10-500	0~10V	0~500	5000	G1
G20-250	0~20V	0~250	5000	G1
G30-170	0~30V	0~170	5100	G2
G40-125	0~40V	0~125	5000	G3
G50-100	0~100V	0~100	5000	G۷
G60-85	0~60V	0~85	5100	G5
G80-65	0~80V	0~65	5200	G6

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

#### **Accessories**

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

## 1. Serial Communication cable

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

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

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

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

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

#### 3. Bus Paralleling cable

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

### 4. User Manual

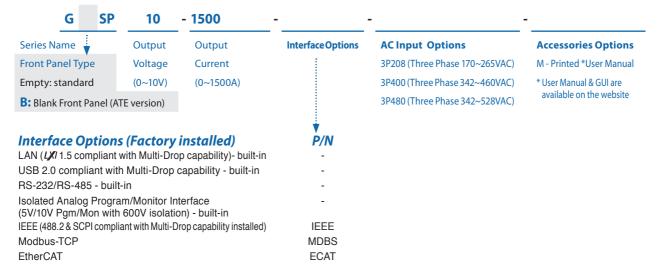
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Printed User Manual	G/M

#### 5. Parallel Kit: 20kW/30kW

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

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

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



## **Models GSP 10kW**

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

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

## **Models GSP 15kW**

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

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

#### **Accessories**

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

#### 1. Serial Communication cable

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

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

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

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

#### 3. User Manual

Printed User Manual	G/M
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# **G**ENESYS<sup>™</sup> Family Output Voltage and Current

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

**AC Input Range** 

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

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



# **Models 1kW**

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

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

# **Models 1.5kW**

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

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

# **G**ENESYS<sup>™</sup> 1kW SERIES SPECIFICATIONS

	1	1									
OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	A	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47			00		100	150	300	_ 000
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5	Ontinuous, 47	~03112,3111gle	riiase						
			- 0.00 0.200								
3.Power Factor (Typ)			c 0.98 @ 200		i -	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)	A	Less than 50A	4								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate	d output volta	age		,					
2.Max. Load regulation (*7)			d output volta								
	_				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	ρ.				
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 & tem	p.		
7. Warm-up drift		Less than 0.0	1% of rated ou	itput voltage-	-2mV over 30 r	minutes follo	wing power on	1.			
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
	_										
9.Up-prog. Response time (*11)	mS	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							or a load chang			urrent. Outpu	t set-point:
11.Transient response time	mS						g 100V. 2mS, fo				
12.Start up delay	Sec	Less than 6 Se	ec								
13.Hold-up time	mS				201	ms typical ra	ted output pov	wer			
•								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)			d output curre								
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.htppie1.iii.s.@Tated Voltage. b.W 5112~1Wi12. (15)	IIIA								≤10	_ ≥0	7 22
5.Temperature coefficient	PPM/°C				-		inutes warm-u	-			
	,	150V~600V	70PPM/°C fro	m rated outp	ut current, follo	owing 30 min	utes warm-up				
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-u	p. Constant line	e, load & temp	perature.		
		10V~100V mo	odel: Less than	+/-0.25% of r	ated output ci	urrent over 30	0 minutes follo	wing power o	on.		
7. Warm-up drift							utes following				
		1301 000111		ins to or racea c	output current			porrer orn			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM 1	THE OUTPUT)									
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: +/-	0.4% of rated lo	out			
3.Vout resistor programming							rity: +/-0.5% of				
	_										
4.lout resistor programming (*14)							rity: +/-0.5% of	rated lout.			
5.Output voltage monitor		_			r: +/-0.5% of ra						
6.Output current monitor (*14)		0~5V or 0~10	V, user selecta	able. Accuracy	r: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPL	IT\										
		In .									
1. Power supply OK #1 signal							ut Off: Off. Max				nt: 10mA.
2. CV/CC signal		CV/CC Monite	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	ım Voltage: 30'	V, Maximum S	Sink Current: 10	)mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	ole analog pro	gramming co	ntrol by electri	ical signal or	dry contact. Re	emote: 0~0.6\	or short. Loca	l: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal							: On. Local: Off.				
5. ENABLE/DISABLE signal							or short, 2~30				
-	+				· · · ·		-			·9·c·	
6. INTERLOCK (ILC) control							e: 0~0.6V or sh			, ,	
7. Programmed signals							imum sink curr				
8. TRIGGER IN / TRIGGER OUT signals							input voltage			evel input =	5V positive
-						ium, Min de	lay between	∠ puises 1ms	5.		
9. DAISY_IN/SO control signal		By electrical	Voltage: 0~0.6	V/2~30V or d	ry contact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0V	/ (500ohm imp	edance)=Fail							
FUNCTIONS AND FEATURES											
FUNCTIONS AND FEATURES		I		1	101						
1. Parallel operation		·			-		uction manual.		_	-	
2. Series operation		Possible. Two	identical unit	ts. Refer to ins	truction manu	al.					
3. Daisy chain		Power suppli	es can be con	nected in Dais	sy chain to syn	chronize thei	ir turn-on and t	turn-off.			
4. Constant power control							the communi		or the front nai	nel.	
5. Output resistance control							ning via the co				
J. Output resistance control									•		
6. Slew rate control		rrogrammab	ole Output rise ion ports or th	and Output f	ail siew rate. Pi	rogramming	range: 0.0001~	~yyy.99 V/mSe	ec. or A/mSec.	rrogramming	via the
7 A.L.:6	1					alla Alasti ist		alt a. ali.			
7. Arbitrary waveforms		Profiles of up	to 100 steps o	an be stored	ın 4 memory c	eiis. Activatio	on by command	u via the com	munication po	rts or by the fr	ont panel.
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)	٧	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)	T				ted output cur	rent					
	_				tea output cur	rent					
3.Vout programming resolution			ed output vol								
4.lout programming resolution		0.002% of rat	ed output cur	rent							
5. Vout readback accuracy	1	0.05% of rate	ed output volt	ane							
		0.0370 Of Tate	a output voit	ugc							
6.lout readback accuracy (*14)									0.25% of rate	d output curr	ent
6.lout readback accuracy (*14)		0.2% of rated	output curre	nt	0.003%	0.002%	0.002%	0.01106		d output curre	
6.lout readback accuracy (*14) 7.Vout readback resolution (of rated output voltage) 8.lout readback resolution (of rated output current))	+				0.003%	0.002%	0.002%	0.011%	0.25% of rate 0.007% 0.015%	0.004%	ent 0.002% 0.007`%

# **G**ENESYS<sup>™</sup> 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)			0.01% of rate		-							
2.Max. Load regulation (*7)			0.01% of rate	· ·								
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	cal sense. Less	recover within than 1mS, for	models up to	and including	100V. 2mS, fo	or models abo	ve 100V.	arrent. 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			
CONSTANT CURRENT MODE		V	10	20	30	40	60	90	100	150	200	600
1.Max. Line regulation (*6)			10 0.01% of rate	d output curre		40	60	80	100	150	300	600
2.Max. Load regulation (*9)			0.02% of rate									
3.Ripple r.m.s. @ rated voltage. B.\	M/ 5Uz1MUz /*12\	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
3.Ripple I.III.S. @ Tated Voltage. B.	VV 3112~11VII12. ( 13)	IIIA			om rated outp					≥10	≥0	] 53
5.Temperature coefficient		PPM/°C			m rated outpu							
6.Temperature stability					rs. interval fol					erature		
o.remperature stability					n +/-0.25% of r							
7. Warm-up drift					.15% of rated o							
				2033 (11011 17 0	.1570 01 14104 0	output current	Over 50 minu	tes following p	JOWEI OII.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROMT	HE OUTPUT)									
			1									
1.Vout voltage programming					ser selectable.							
Nout voltage programming     Industrial (*14)	i)		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 selecta	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 selecta	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 selecta	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	V or 0~10V, us /10Kohm full : /10Kohm full : /V, user selecta V, user selecta	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, Maximi	um 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: V, user selecta V, user selecta v output moni	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 /10Kohm full V, user selecta V, user selecta v output moni or. Open colle	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli	Accuracy and ectable. Accuracy acceptable. 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 : /10Kohm full : /V, user selecta // output moni or. Open colle ole analog pro	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	)mA. 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		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 : /V, user selecta /V, user selecta / output moni or. 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.  kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vol	ink Current: 10 or short. Loca tage: 30V, Max	0mA. l: 2~30V or op timum Sink Cu	en.
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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)  5.Output voltage monitor (*14)  5.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 3.Vout 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 Enable/Disab analog progre Enable/Disab Enable/D	V or 0~10V, us/10Kohm full: /10Kohm full: /1	ser selectable. scale, user sele scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open colli ctor. CC mode gramming cor ol monitor sign by electrical si by electrical si oby electrical si o	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	omA.  I: 2-30V or opcimum Sink Cu igic.  zener)  evel input =  hel.  port panel.  Programming  rts or by the fi	sen.  SV positive  via the  ront panel.
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. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 5. Vout readback accuracy	ATED FROM THE OUTPU	T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disab analog progri Enable/Disab Enable/Di	V or 0~10V, us/10Kohm full: /10Kohm full: /1	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 stV/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	omA.  I: 2-30V or opcimum Sink Cu igic.  zener)  evel input =  hel.  port panel.  Programming  rts or by the fi	sen.  SV 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)  5.Output voltage monitor (*14)  5.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 3.Vout 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 Enable/Disab analog progre Enable/Disab Enable/D	V or 0~10V, us /10Kohm full : /10Koh	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 stV/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	omA.  I: 2-30V or opcimum Sink Cu igic.  zener)  evel input =  hel.  port panel.  Programming  rts or by the fi	sen.  SV positive  via the  ront panel.

# **G**ENESYS<sup>™</sup> 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-o	down when pole. Reset by A	ower supply o	changes mode le in autostart	from CV or Po mode, by Pov	ower Limit to wer Switch, by	CC mode or fro OUTPUT butt	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input re	cycle in autost	art mode, by	OUTPUT butt	on, by rear par	nel or by comr	nunication.	
3.Over -voltage programming ran	ge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming acc	uracy		+/-1% of rated	d output volta	ige							
5.Output under voltage limit (UVL	.)							programming	g. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection						y autostart mo	de.					
7. Output under voltage limit (UVL	_)		Prevents adju	istment of Voi	ut below limit							
8. Output under voltage protectio	on (UVP)					. P.S output tu ton, by rear pa			ge condition. R	eset by AC in	out recycle in	autostart
FRONT PANEL												
1.Control functions			Multiple option	ons with 2 Eng	nders							
i.comorancions				wer Limit mar								
			OVP/UVL/UVF									
						ldback, OCL, El	NA II C					
								or Optional o	ommunication	n interface.		
			Output ON/O			.,,	,,555					
			<del></del>			Baud Rate, Ad	dress, IP and	communicati	on language.			
									10K programn	nina		
						Voltage/Curre				9		
2.Display						utput voltage		, - 1, 1 - 1				
						tput current +/						
3.Front Panel Buttons Indications								N.CONFIGUR	ATION, SYSTEN	A. SEOUENCE	3.	
4. Front Panel Display Indications			Voltage, Curre	ent, Power, C\	/, CC, CP, Exte		xternal Curre	nt, Address, L	FP, Autostart, S			note
ENVIRONMENTAL CONDITIONS												
			Ta =====									
1.Operating temperature			0~50°C, 100%	o Ioad.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (r	no condensati	ion).							
4.Storage humidity		%	10~95% RH (r	no condensati	ion).							
5.Altitude			Operating: 10	000ft (3000m	), output curr	ent derating 29	%/100m or Ta	derating 1°C/	100m above 20	000m. Non op	erating: 4000	0ft (12000m).
MECHANICAL				· ·						<u> </u>		
1.Cooling			Forced air cod	olina by interr	nal fanc Air fle	ow direction: fi	om Front nar	al to nower s	upply rear			
_ <u> </u>				_ , _	iai iaiis. Ali ii	ow direction. II	Oni i Tont pai	iei to power s	парріу геаг			
2.Weight		kg	Less than 5kg		040-1 - 1							
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 553.2	(Including b		ousbars cove	er) (Refer to	Outline drawi	ing).		
4.Vibration						st condition Ar	nex C - 2.1.3.	l				
5.Shock			Less than 20G	i, half sine, 11	mSec. Unit is u	unpacked.						
SAFETY/EMC												
1.Applicable standards:	Safety G1kW/G1.7kW		UI 61010-1 C	SA22 2 No 610	110-1 IFC6101	0-1, EN61010-1						
1.1. Interface classification	G1kW/1.7kW		Vout≤50V Mo	dels: Output,	J1, J2, J3, J4, J	5, J6, J7, J8 (ser	nse) & J9 (com	munication o	options) are No & J9 (communic	n Hazardous.	s) are Non Haz	ardous
1.2 Withstand voltage	G1kW/1.7kW		Vout≤50V Mi Input - Grour 60V≤Vout≤10 Output & J8 100V <vout≤10 Output &amp; J8 Output &amp; J8 Output &amp; J8</vout≤10 	odels: Input- nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1,	- Output & Ja C 1min. Input - Outp J2, J3, J4, J1 bound: 1500VI Input - Out J2, J3, J4, J5 bound: 2500VI	8 (sense), J1, but & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	J2, J3, J4, J e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J3	5, J6, J7 & J , J4, J5, J6, ation options 2835VDC 1m 3, J4, J5, J6,	9 (communica J7 & J9 (comr ): 850VDC 1m	ation options) munication options	: 4242VDC 1	min, VDC 1min,
1.3 Insulation resistance			100Mohm at 2	25°C, 70%RH.	Output to Gr	ound 500VDC						
2.Conducted emmision						Annex H table I	H.1 , FCC Part	15-A, VCCI-A				
3.Radiated emission			_			Annex H table I						
4. EMC compliance	EMC (*4)		According to									
			1 29 10	2, 201201								

- 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.

# **G**ENESYS™ 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		٧	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
INPUT CHARACTERISTICS		٧	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 w	ire + Ground (*4)		3-Phase, 400' 3-Phase, 480'	V models: 342 V models: 342	0~265Vac, 47~ 2~460Vac, 47~ 2~528Vac, 47~ 1~265Vac, 47~	63Hz (Covers 63Hz (Covers :	380/400/415\ 380/400/415/4	40/460/480Va	ac)			
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models: 1-Phase, 200V models:		10A @ 200Va 5.5A @ 380Va 5.5A @ 380Va 16.5A @ 200V	ac								
3.Power Factor (Typ)					30Vac, rated or c, rated outpu							
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		% A	88 Less than 50A	89 A	89.5	90	90	90.5	90.5	90.5	90.5	90.5
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volt								
2.Max. Load regulation (*8)				d output volt								
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 EODDM/°C fro	10	10 out voltage, fo	12	15	15	15	20	60	100
5.Temperature coefficient 6.Temperature stability					hrs interval fo				ne load&tem	nn		
7. Warm-up drift					utput voltage					r'		
8.Remote sense compensation/w	rire (*10)	٧	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) No load (*12)	mS c	50 450	50 600	80 800	80 900	80 1100	100 1300	100 2100	100 2000	100 3200	200 3100
11.Transient response time	NO 10a0 (*12)	mS mS	Time for outp	out voltage to		n 0.5% of its ra	ted output fo	or a load chan	ge 10~90% of	rated output	current. Outp	
12.Start up delay		Sec	Less than 6 Se		5 (11011 11115, 10	i illoueis up to	and includin	lg 100v. 21113, 1	or models ab	ove 100v.		
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr								
2.Max. Load regulation (*13)			0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1- 5.Temperature coefficient	rnase (*14)	mA PPM/°C			≤300 rom rated out					≤40	≤12	≤8
6.Temperature stability					om rated outp ors. interval fo					inerature		
7. Warm-up drift			10V~100V mo	odel: Less tha	n +/-0.25% of	rated output o	urrent over 3	0 minutes foll	owing power			
					0.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED					A	I Itaa aa aa taa aa aa da	0.150/ -64	11/			
1.Vout voltage programming  2.lout voltage programming (*15	<b>\</b>				ser selectable ser selectable							
2.100t voitage programming ( 13												
3.Vout resistor programming	)											
3.Vout resistor programming 4.lout resistor programming (*15)			0~100%, 0~5	/10Kohm full	scale, user sel scale, user sel	ectable. Accui	acy and linea	rity: +/-0.5% c	of rated Vout.			
			0~100%, 0~5 0~100%, 0~5	/10Kohm full /10Kohm full	scale, user sel	ectable. Accui ectable. Accui	acy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15			0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	5/10Kohm full 5/10Kohm full DV, user select	scale, user sel scale, user sel	ectable. Accui ectable. Accui y: +/-0.5%.	acy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15) 5.Output voltage monitor	)		0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	5/10Kohm full 5/10Kohm full DV, user select	scale, user sel scale, user sel able. Accurac	ectable. Accui ectable. Accui y: +/-0.5%.	acy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	)	   T)	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	is/10Kohm full is/10Kohm full iv/, user select iv/, user select iv/ output mon	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col	ectable. Accui ectable. Accui y: +/-0.5%. y: +/-0.5%.	racy and linea racy and linea On: On. Outp	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma	of rated Vout. of rated lout. aximum Volta		num Sink Curr	ent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	) ATED FROM THE OUTPU	   T)	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	is/10Kohm full is/10Kohm full iv/, user select iv/, user select v/ output mon or. Open colle	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open collector. CC mode	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mode	racy and linea racy and linea On: On. Outp e: Off. Maximi	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30	of rated Vout.  of rated lout.  aximum Volta  OV, Maximum	Sink Current:	10mA.	
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	) ATED FROM THE OUTPU	   T)	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monito Enable/Disab	i/10Kohm full i/10Kohm full i/V, user select i/V, user select y output mon or. Open colle ole analog pro	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open coll ector. CC mode ogramming co	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV modentrol by electi	on: On. Outpe: Off. Maximurical signal or	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30 dry contact. R	of rated Vout. of rated lout. of saximum Volta OV, Maximum emote: 0~0.6	Sink Current: V or short. Loc	10mA. cal: 2~30V or o	pen.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	) ATED FROM THE OUTPU	T)	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	i/10Kohm full i/10Kohm full i/V, user select i/V, user select y output mon or. Open colle ole analog pro amming contri	scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open collector. CC mode ogramming corol monitor sig	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mode ntrol by electinal. Open colle	on: On. Outpe: Off. Maximurical signal or ector. Remote:	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off	of rated Vout. of rated lout. of rated lout. of rated lout. ov, Maximum Volta ov, Maximum emote: 0~0.6 Maximum Vo	Sink Current: V or short. Loc Itage: 30V, Ma	10mA. cal: 2~30V or o ximum Sink Cu	pen.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	) ATED FROM THE OUTPU	T)	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 Enable/Disab	is/10Kohm full is/10Kohm full DV, user select DV, user select y output mon or. Open colle ble analog pro amming controlle DI PS output	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open coll ector. CC mode ogramming co	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mod- ntrol by electronal. Open colle- ignal or dry co	On: On. Outpe: Off. Maximirical signal or ector. Remote: ntact. 0~0.6V	rity: +/-0.5% c rity: +/-0.5% c out Off: Off. Ma um Voltage: 31 dry contact. R On. Local: Off or short, 2~30	of rated Vout.  of rated lout.  aximum Volta OV, Maximum emote: 0~0.6 Maximum Vo OV or open. U:	Sink Current: V or short. Loc Itage: 30V, Ma ser selectable	10mA. cal: 2~30V or o ximum Sink Cu	pen.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	) ATED FROM THE OUTPU	   T) 	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 Enable/Disab Enable/Disab	is/10Kohm full is/10Kohm full DV, user select DV, user select y output mon or. Open colle ole analog pro amming controlle PS output ole PS output	scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open collector. CC mode orgamming corol monitor sig by electrical s	ectable. Accurectable. Accurec	On: On. Outpe: Off. Maximirical signal or ector. Remote: ntact. 0~0.6V	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3/ dry contact. R On. Local: Off or short, 2~3/ e: 0~0.6V or sl	of rated Vout.  of rated lout.  oximum Volta OV, Maximum emote: 0~0.6  Maximum Vo OV or open. Us nort. Local: 2~	Sink Current: V or short. Loo Itage: 30V, Ma: ser selectable 30V or open.	10mA. cal: 2~30V or o ximum Sink Cu logic.	pen.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPU	  T)  	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum la	is/10Kohm full is/10Kohm full is/10Kohm full is/10Kohm full ib/, user select y output mon or. Open colle ole analog pro amming contro ole PS output ole PS output ole programm ow level inpo	scale, user sel scale, user sel scale, user sel able. Accuraciable. Accuracitor. Open collector. CC mode orgramming corol monitor sig by electrical s by electrical s able signals.	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mode ntrol by electrinal. Open colle ignal or dry co ignal or dry co Maximum volt 0.8V.Minimu	On: On. Outpe: Off. Maximurical signal or rector. Remote: ntact. 0~0.6V mage 25V, Max m high level	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2~3i e: 0~0.6V or sl imum sink cui	of rated Vout.  of rated lout.  oximum Volta  ov, Maximum  emote: 0~0.6  Maximum Vo  ov or open. Us  nort. Local: 2~  rrent 100mA (  ge = 2.5V. Maximum  of rated Vout.	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic.	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL # 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	ATED FROM THE OUTPU	T)	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 Enable/Disab Enable/Disab Two open dra Maximum le edge trigge	is/10Kohm full is/10K	scale, user sel scale, user sel scale, user sel able. Accuraciable. Accuraciable. Accuracion con sector. CC mode orgramming cool monitor sign by electrical suby electrical su	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV mode ntrol by electr nal. Open colle ignal or dry co gnal or dry co Maximum volt 0. 8V,Minimu If=1us Maxim	On: On. Outpe: Off. Maximurical signal or rector. Remote: ntact. 0~0.6V mage 25V, Max m high level	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2~3i e: 0~0.6V or sl imum sink cui	of rated Vout.  of rated lout.  oximum Volta  ov, Maximum  emote: 0~0.6  Maximum Vo  ov or open. Us  nort. Local: 2~  rrent 100mA (  ge = 2.5V. Maximum  of rated Vout.	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPU	T)	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 Enable/Disab Enable	id 10Kohm full id 10K	scale, user sel scale, user sel scale, user sel able. Accuraciable. Accuracitor. Open collector. CC mode orgramming corol monitor sig by electrical s by electrical s able signals.	ectable. Accurectable. Accurec	On: On. Outpe: Off. Maximurical signal or rector. Remote: ntact. 0~0.6V mage 25V, Max m high level	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2~3i e: 0~0.6V or sl imum sink cui	of rated Vout.  of rated lout.  oximum Volta  ov, Maximum  emote: 0~0.6  Maximum Vo  ov or open. Us  nort. Local: 2~  rrent 100mA (  ge = 2.5V. Maximum  of rated Vout.	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	ATED FROM THE OUTPU	T)	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 Enable/Disab Enable	id 10Kohm full id 10K	scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open collector. CC mode or oll monitor signification of the scale signals. Ut voltage = ininimum. Tr, 60/2~30V or d	ectable. Accurectable. Accurec	On: On. Outpe: Off. Maximurical signal or rector. Remote: ntact. 0~0.6V mage 25V, Max m high level	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2~3i e: 0~0.6V or sl imum sink cui	of rated Vout.  of rated lout.  oximum Volta  ov, Maximum  emote: 0~0.6  Maximum Vo  ov or open. Us  nort. Local: 2~  rrent 100mA (  ge = 2.5V. Maximum  of rated Vout.	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog 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	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 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progre Enable/Disab Enable/Disab Two open dra Maximum It edge trigge By electrical 4~5V=OK, 0V	i/10Kohm full i/	scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open collector. CC mode ogramming corol monitor sig by electrical s by electrical shable signals. ut voltage = ninimum. Tr, 60/2~300 or d pedance)=Fail	ectable. Accurectable. Accurec	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0-0.6V ntact. Remote ntact. Quality in the control age 25V, Max m high level num, Min de	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R. On. Local: Off or short, 2-3i e: 0~0.6V or 3i imum sink cui input voltac lay between	of rated Vout.  of rated lout.  aiximum Volta  of Maximum  emote: 0~0.6.  Maximum Vo  of or open. U  or of Local: 2~  rrent 100mA (  ge = 2.5V, Ma.  2 pulses 1m	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	ATED FROM THE OUTPU		0–100%, 0–5 0–100%, 0–5 0–100%, 0–5 0–5V or 0–10 0–5V or 0–10 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum le edge trigge By electrical 1 4–5V=OK, 0V	i/10Kohm full i/	scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open collector. CC mode or oll monitor signification of the scale signals. Ut voltage = ininimum. Tr, 60/2~30V or d	ectable. Accure etable. Accure etable. Accure etable. Accure provides a construction of the construction o	On: On. Outpe: On: On. Outpe: Off. Maximical signal or cctor. Remote: ntact. Remote age 25V, Max m high level num, Min de	rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R. On. Local: Off or short, 2-3i e: 0~0.6V or 3i imum sink cui input voltac lay between	of rated Vout.  of rated lout.  aiximum Volta  of Maximum  emote: 0~0.6.  Maximum Vo  of or open. U  or of Local: 2~  creent 100mA (  ge = 2.5V, Ma.  2 pulses 1m	Sink Current: V or short. Loc ltage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 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	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 Enable/Disab Enable/	in the control of the	scale, user sel scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy able. Accuracy itor. Open collector. CC mode or sector. CC mode or sect	ectable. Accurectable. Accurec	On: On. Outpe e: Off. Maximirical signal or extor. Remote: ntact. 0-0.50 intact. Remote: ntact. or o.60 intact. or o.	ut Off: Off. M. un Voltage: 3d dry contact. R. on. Local: Off or short, 2-3 e: 0~0.6V or sh imum sink cut input voltage lay between	of rated Vout.  of rated lout.  aximum Volta DV, Maximum emote: 0~0.6. DV or open. U: or t. Local: 2~ creent 100mA ( 2 pulses 1m  l.  turn-off.	Sink Current: V or short. Loc Itage: 30V, Ma: ser selectable 30V or open. Shunted by 27 aximum high is.	10mA. cal: 2~30V or o ximum Sink Cu logic.  7V zener) I level input =	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 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	ATED FROM THE OUTPU		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progre Enable/Disab Two open dra Maximum Ic edge trigge By electrical 14~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou	i/10Kohm full i/	scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy able. Accuracy itor. Open collector. CC mode or	ectable. Accurectable. Accurec	On: On. Outper On: On. Outper Off. Maxim rical signal or entact. 0-0.6V ntact. Remote ntact. Which age 25V, Max m high level num, Min de	ut Off: Off. Ms um Voltage: 3d dry contact. R. On. Local: Off or short, 2-3a e: 0~0.6V or short call between uction manua ir turn-on and a the commur	of rated Vout.  of rated lout.  aximum Volta  of, Maximum emote: 0~0.6.  Maximum Volv  of or open. U:  ort. Local: 2~  rrent 100mA (  ge = 2.5V, Ma;  2 pulses 1m  l.  turn-off.  nication ports	Sink Current: V or short. Loc Itage: 30V, Ma: ser selectable 30V or open. Shunted by 27 iximum high is.	10mA.	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 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	ATED FROM THE OUTPU		0–100%, 0–5 0–100%, 0–5 0–100%, 0–5 0–5V or 0–10 0–5V or 0–10 Power supply CV/CC Monite Enable/Disak analog progre Enable/Disak Two open dra Maximum Ic edge trigge By electrical 4–5V=OK, 0V Possible. Up 1 Possible. Twc Power supplication of the control of the control Enable/Disak Enable/Disak Two open dra Maximum Ic edge trigge By electrical Enable/Disak Up 1 Possible. Up 1 Possible. Twc Disak Enable/Disak Enable/Disa	//10Kohm full //	scale, user sel scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy able. Accuracy itor. Open collector. CC mode ogramming corol monitor sig by electrical shable signals. ut voltage = ininimum. Tr; 60/2–300 or depedance)=Fail units in Mastets. Refer to insinected in Dai of a proggramm. Resistance ra	ectable. Accurectable. Accurec	On: On. Outpe e: Off. Maxim ical signal or ettor. Remote: ntact. 0~0.6V ntact. Remot high level num, Min de	rity: +/-0.5% c rity: +/-0.5% c  ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2-3i e: 0-0.6V or si imum sink cui input volta callay between	of rated Vout.  of rated lout.  aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo Ov or open. U' or t. Local: 2~ rrent 100mA (  ge = 2.5V, Max 2 pulses 1m  l.  turn-off.  iciation ports  mmunication	Sink Current: V or short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high is.  or the front p. p. ports or the leaders.	10mA.  cal: 2~30V or o ximum Sink Cu logic.  7V zener) a level input =	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 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	ATED FROM THE OUTPU		0–100%, 0–5 0–100%, 0–5 0–100%, 0–5 0–5V or 0–10 0–5V or 0–10 Power supply CV/CC Monite Enable/Disab analog progre Enable/Disab Enable/	in the control of the	scale, user sel scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy able. Accuracy itor. Open collector. CC mode ogramming corol monitor sig by electrical shable signals. ut voltage = ininimum. Tr; 60/2–300 or depedance)=Fail units in Mastets. Refer to insinected in Dai of a proggramm. Resistance ra	ectable. Accure etable. Accure etable. Accure etable. Accure pr. +/-0.5%. ector. Output etable. CV modentrol by electrol. Output of the etable. Accure program of the etable. On a colleginal or dry condaximum volto. 8.8V, Minimum pr. 1.8V, Minimum pr. 1.V, Minimum pr. 1.8V, Minimum pr. 1.8V, Minimum pr. 1.8V, Minimum	On: On. Outpe e: Off. Maxim ical signal or ettor. Remote: ntact. 0~0.6V ntact. Remot high level num, Min de	rity: +/-0.5% c rity: +/-0.5% c  ut Off: Off. Ma um Voltage: 3i dry contact. R On. Local: Off or short, 2-3i e: 0-0.6V or si imum sink cui input volta callay between	of rated Vout.  of rated lout.  aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo Ov or open. U' or t. Local: 2~ rrent 100mA (  ge = 2.5V, Max 2 pulses 1m  l.  turn-off.  iciation ports  mmunication	Sink Current: V or short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high is.  or the front p. p. ports or the leaders.	10mA.	pen. rrent: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 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	ATED FROM THE OUTPU		0–100%, 0–5 0–100%, 0–5 0–100%, 0–5 0–5V or 0–10 0–5V or 0–10 0–5V or 0–10 Power supply CV/CC Monite Enable/Disab Enable/D	in the control of the	scale, user sel scale, user sel scale, user sel scale, user sel able. Accuracy able. Accuracy able. Accuracy itor. Open collector. CC mode or sector. CC mode or sect	ectable. Accurectable. Accurec	On: On. Outpe e: Off. Maximirical signal or extors. Remote: ntact. 0-0.50 ntact. Remote: ntact.	ut Off: Off. Ma um Voltage: 3d dry contact. R. On. Local: Off or short, 2–3d e: 0~0.6V or sl imum sink cut i input voltag lay between	of rated Vout.  of rated lout.  aximum Volta DV, Maximum emote: 0~0.6.  Not or open. U: nort. Local: 2~ rrent 100mA (  ge = 2.5V, Maximum  l.  turn-off. bication ports mmunication ~999.99 V/mS	Sink Current: Vor short. Loc Itage: 30V, Ma: ser selectable 30V or open. Shunted by 27 eximum high is.  or the front pa ports or the lect. or A/mSec	10mA.  cal: 2~30V or o ximum Sink Cu logic.  7V zener) a level input =	pen. rrent: 10mA.  = 5V positive  g via the
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# **G**ENESYS<sup>™</sup> 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		; T	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)	1		10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	-	_	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power	V	_	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS	١	_	10	20	30	40	60	80	100	150	300	600
	100	3			~265Vac, 47~6 !~460Vac, 47~6			/ac)				
1.Input voltage/freq. 3 phase, 3 wire + Groun	d (*4)	3	-Phase, 480\	/ models: 342	~528Vac, 47~6	3Hz (Covers	380/400/415/4	40/460/480V	ac)			
		1-	-Phase, 200\	/ models: 170	~265Vac, 47~6	3Hz (Covers 2	200/208/230/2	240Vac)				
	00V models:		2.5A @ 200V									
	00V models:		.5A @ 380Va									
	30V models:		.5A @ 380Va									
1-Phase, 20	00V models:		1A @ 200Vac							-	-	
3.Power Factor (Typ)					0Vac, rated ou							
4.Efficiency (Typ) (*5) (*22)	9		88	89 @ 200va	, rated output 89.5	power. 90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)	, , , , , , , , , , , , , , , , , , ,	-	ess than 50A		07.3	90	70	90.3	90.3	30.3	30.3	90.3
CONSTANT VOLTAGE MODE	١	_	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		_		d output volt						-		
2.Max. Load regulation (*8)				d output volt								
3.Ripple and noise (p-p, 20MHz) (*9)	m	_	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	m	_	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient	PPM				ut voltage, fol							
6.Temperature stability					hrs interval fol					ip.		
7. Warm-up drift		_			utput voltage-					-	-	-
8.Remote sense compensation/wire (*10)	١	-	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	11) m	_	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time: Full load (*			50	50	80	80	80	100	100	100	100	200
No load (*1	2) m		450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time	m				recover withing than 1mS, for						current. Outp	ut set-point:
12.Start up delay	Se	_	ess than 6 Se		5 (11411 11115, 101	models up to	o una meraan	9 1001.21115,	TOT THOUGHS UD	010 1001.		
• •												
CONSTANT CURRENT MODE	١		10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		_		d output curr								
2.Max. Load regulation (*13)		_		d output curi							,	
3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)	m	_	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)	m	-	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient	PPM	\/° <b>C</b> ⊢			rom rated outp							
·		1.			m rated outp							
6.Temperature stability					rs. interval fol							
7. Warm-up drift					n +/-0.25% of r					on.		
·		1.	50V~600V: L	ess than +/-C	.15% of rated o	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MONITORIN	G (ISOLATED FRO	OM TH	IE OUTPUT)									
1.Vout voltage programming		- 0	~100%, 0~5	V or 0~10V, u	ser selectable.	Accuracy and	l linearity: +/-	0.15% of rated	l Vout.			
2.lout voltage programming (*15)		- 0	~100%, 0~5	V or 0~10V, u	ser selectable.	Accuracy and	l linearity: +/-	0.4% of rated	lout.			
3. Vout resistor programming		- 0	~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accu	racy and linea	rity: +/-0.5% d	of rated Vout.			
4.lout resistor programming (*15)					scale, user sele		racy and linea	rity: +/-0.5% o	of 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 OUTPUT)											
1. Power supply OK #1 signal		- P	ower supply	output mon	itor. Open coll	ector. Output	On: On. Outr	ut Off: Off. Ma	aximum Volta	ge: 30V. Maxin	num Sink Curr	ent: 10mA.
2. CV/CC signal					ctor. CC mode							
3. LOCAL/REMOTE Analog control					gramming co							pen.
4. LOCAL/REMOTE Analog signal		-			ol monitor sign							
5. ENABLE/DISABLE signal					by electrical si							
6. INTERLOCK (ILC) control					by electrical si							
7. Programmed signals		_			nable signals. N						'V zener)	
8. TRIGGER IN / TRIGGER OUT signals												5V positive
-		Ν	naxiiiiuiiiiic	w level lilp	ut voltage = (	).8V,Minimu	m high leve	input voltad	ge = 2.5V, Ma	ıximum high	reverinput -	
9. DAISY_IN/SO control signal		- N	dge trigge	r: tw=10us r	ninimum. Tr,1	f=1us Maxir	m high leve num, Min de	input voltag lay betweer	ge = 2.5V, Ma 1 2 pulses 1m	s.	ieveriiiput -	
		- Me	dge trigge y electrical \	r: tw=10us r /oltage: 0~0.	ninimum. Tr,1 6V/2~30V or di	f=1us Maxir	m high leve num, Min de	input voltag lay betweer	ge = 2.5V, Ma 1 2 pulses 1m	iximum high s.	Tever iliput -	
10. DAISY_OUT/PS_OK #2 signal		- Me	dge trigge y electrical \	r: tw=10us r /oltage: 0~0.	ninimum. Tr,1	f=1us Maxir	m high leve num, Min de	input voltag lay betweer	ge = 2.5V, Ma 1 2 pulses 1m	iximum high s.	Tever III put -	
10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		- Me	dge trigge y electrical \	r: tw=10us r /oltage: 0~0.	ninimum. Tr,1 6V/2~30V or di	f=1us Maxir	m high leve num, Min de	input voltag lay betweer	ge = 2.5V, Ma 1 2 pulses 1m	s.	Tever input -	
-		- Ne	edge trigge by electrical \ ~5V=OK, 0V	r: tw=10us r /oltage: 0~0. (500ohm im	ninimum. Tr,1 6V/2~30V or di	f=1us Maxir y contact.	num, Min de	lay betweer	2 pulses 1m	iximum high s.	Tever imput -	
FUNCTIONS AND FEATURES		- B - 4	dge trigge by electrical \ ~5V=OK, 0V bossible. Up t	r: tw=10us r /oltage: 0~0. (500ohm im	ninimum. Tr, 1 6V/2~30V or di pedance)=Fail	f=1us Maxir y contact. r/Slave mode.	num, Min de	lay betweer	2 pulses 1m	iximum high	Tever III put -	
FUNCTIONS AND FEATURES 1. Parallel operation		- Me - B - 4	edge trigge by electrical \ ~5V=OK, 0V cossible. Up tossible. Two	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni	ninimum. Tr,7 6V/2~30V or di pedance)=Fail units in Mastel	ry contact.  r/Slave mode. truction man	Refer to instrual.	lay betweer	i 2 pulses 1m	iximum high	Tever III put -	
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation		- P - P	edge trigge by electrical \ ~5V=OK, 0V cossible. Up to cossible. Two cower supplied	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni es can be cor	ninimum. Tr,1 6V/2~30V or di pedance)=Fail units in Mastel ts. Refer to ins	f=1us Maxir ry contact. r/Slave mode. truction man	Refer to instrual.	uction manua	l. turn-off.	s.		
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain		- P P L	dge triggel y electrical \ \times 5V=OK, 0V	r: tw=10us r /oltage: 0~0. (500ohm im  o 4 identical identical uni es can be cor tput power to	ninimum. Tr,	rf=1us Maxir ry contact. r/Slave mode. truction man ry chain to syr ned value. Pro	Refer to instrual. nchronize the	uction manua ir turn-on and a the commur	lturn-off.	s.	anel.	
FUNCTIONS AND FEATURES  1. Parallel operation  2. Series operation  3. Daisy chain  4. Constant power control  5. Output resistance control		- P - P - P - P - E	dge trigger by electrical \(\frac{1}{2}\) \(\sim \cop \cop \cop \cop \cop \cop \cop \cop	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni es can be cor tput power to es resistance le Output ris	ninimum. Tr, To V/2~30V or di pedance)=Fail units in Master ts. Refer to ins inected in Dais to a proggramn Resistance rais and Output f	rf=1us Maxir ry contact. r/Slave mode. truction man ry chain to syr ned value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the ogramming vi	uction manua ir turn-on and a the commur ning via the co	lturn-off.	or the front pa	anel.	
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control		- P - P - P - P - P	edge trigger by electrical \\ ~5V=OK, OV\ Tossible. Up tossible. Two Tower supplications the out Tower supplication to the out Tower supplies	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni es can be cor tput power tr es resistance le Output ris on ports or tl	ninimum. Tr,1 6V/2~30V or di pedance)=Fail units in Master ts. Refer to ins inected in Dais a proggram Resistance ral e and Output f ne front panel.	rf=1us Maxir ry contact. r/Slave mode. truction man ry chain to syr ned value. Pro- nge: 1~1000r all slew rate. F	Refer to instrual.  nchronize the gramming vinΩ. Programming	uction manua ir turn-on and a the commur ning via the cr range: 0.0001	il. lturn-off. nication ports ommunication ~999.99 V/mS	or the front pa n ports or the f ec. or A/mSec	anel. front panel. . Programmin	g via the
FUNCTIONS AND FEATURES  1. Parallel operation  2. Series operation  3. Daisy chain  4. Constant power control  5. Output resistance control		- P P P P E	edge trigger by electrical \\ ~5V=OK, OV\ Tossible. Up tossible. Two Tower supplications the out Tower supplication to the out Tower supplies	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni es can be cor tput power tr es resistance le Output ris on ports or tl	ninimum. Tr, To V/2~30V or di pedance)=Fail units in Master ts. Refer to ins inected in Dais to a proggramn Resistance rais and Output f	rf=1us Maxir ry contact. r/Slave mode. truction man ry chain to syr ned value. Pro- nge: 1~1000r all slew rate. F	Refer to instrual.  nchronize the gramming vinΩ. Programming	uction manua ir turn-on and a the commur ning via the cr range: 0.0001	il. lturn-off. nication ports ommunication ~999.99 V/mS	or the front pa n ports or the f ec. or A/mSec	anel. front panel. . Programmin	g via the
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, L		- P - P - L - E - C - P	edge trigger by electrical N ~5V=OK, OV Possible. Up to Possible. Two Power supplied imits the out mulates seri rorgiammab communicati	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical unies can be cor tput power tres resistance le Output riss on ports or the	ninimum. Tr,1 SV/2~30V or dipedance)=Fail units in Masteits. Refer to insinected in Dais pa proggramn. Resistance rale and Output free front panel. can be stored	rf=1us Maxir ry contact. r/Slave mode. truction many ry chain to syr ned value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming vinΩ. Programring vingcerless. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LRS232/485, Optional IEEE(*19)(*20) Inter		- P - P - P - L - E - P	odge trigger y electrical \( \times \) \( \t	r: tw=10us r foltage: 0~0. (500ohm im o 4 identical identical uni es can be cor tput power to es resistance le Output riso on ports or ti to 100 steps	ninimum. Tr,7 6V/2~30V or dipedance)=Fail units in Mastei ts. Refer to ins inected in Dais to a proggramn Resistance rai e and Output f ee front panel. can be stored	rf=1us Maxir ry contact. r/Slave mode. truction man ry chain to syr ned value. Pro- nge: 1~1000r all slew rate. F	Refer to instrual.  nchronize the gramming vinΩ. Programming	uction manua ir turn-on and a the commur ning via the cr range: 0.0001	il. lturn-off. nication ports ommunication ~999.99 V/mS	or the front pa n ports or the f ec. or A/mSec	anel. front panel. . Programmin	g via the
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, RS232/485, Optional IEEE(*19)(*20) Intel 1. Vout programming accuracy (*16)		- P - P - L - P - P - C - P - P - C - P - P - C - P - P	y electrical \(\text{v-sV=OK, OV}\)  Tossible. Up tossible. Up tossible. Two fower supplications to the outmandates seriorgrammab ommunication for files of up  10  .05% of rate:	r: tw=10us r foltage: (~0. (5000hm im o 4 identical identical uni es can be cor tput power tr es resistance le Output riso on ports or tl to 100 steps 20 d output volt	ninimum. Tr, TsV/2-30V or dipedance)=Fail units in Masteits. Refer to insinected in Dais a proggramn. Resistance raile and Output field front panel. can be stored  30 age	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, RS232/485, Optional IEEE(*19)(*20) Inter 1. Vout programming accuracy (*15)		- Nee A A A A A A A A A	dge trigger y electrical \( \) \( \sim \) \(	r: tw=10us r //oltage: 0~0. (500ohm im o 4 identical identical unies can be cor tput power tre es resistance le Output rison on ports or tl to 100 steps  20 d output volt output volt output curn	ninimum. Tr, TsV/2~30V or dipedance)=Fail units in Mastets. Refer to insinected in Dais a proggramn. Resistance raile and Output file front panel. can be stored  30 age ent+0.2% of ra	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, L RS232/485, Optional IEEE(*19)(*20) Inter 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution		- Nee A PP PP LL E PP PP O0 00 00 0	dge trigger y electrical \( \cdots \) \( \sim \) \( \si	r: tw=10us r //oltage: 0~0. (500ohm im o 4 identical identical unies can be cor tput power te es resistance le Output r is on ports or it to 100 steps  20 d output volt output curred output utvolt output curred output volv	ninimum. Tr, TsV/2~30V or dipedance)=Fail units in Master ts. Refer to ins nected in Dais o a programm. Resistance rai e and Output fi e front panel. can be stored  30 age ent+0.2% of ra ltage	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, L RS232/485, Optional IEEE(*19)(*20) Inter 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution		- PP LL EE PP Cc PP 00 00 00 00	dge trigger y electrical \( \cdot \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \sim \cdot \sim \cdot \sim \cdot \sim \cdot \sim \cdot \sim \cdot \sim \sim \sim \sim \sim \sim \sim \sim	r: tw=10us r foltage: 0~0. (500ohm im o 4 identical uni ss can be cor typut power te se resistance le Output rison on ports or tl to 100 steps  20 d output volt ol output volr ol output curre del output volr ol output curre del output volv ol output curre del output volv old output curre	ninimum. Tr, TsV/2-30V or dipedance)=Fail units in Masteits. Refer to insinected in Dais a proggramn Resistance raie and Output file front panel. can be stored  30 age ent+0.2% of railtage trent	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, L SZ32/485, Optional IEEE(*19)(*20) Inter 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy		- Ree - P - P - P - L - E - P - C - P - O - O - O - O - O - O - O - O - O	dge trigger y electrical \( \cdot \) \( \sim \sim \) \(	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni ss can be core tput power te se resistance le Output rise on ports or t to 100 steps  20 d output volt output currue ded output currue ded output cur	ninimum. Tr, TsV/2-30V or dipoedance)=Fail units in Masteits. Refer to insinected in Dais to a proggramn. Resistance rare and Output fue front panel. can be stored  30 age ent+0.2% of ralltage trrent	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, RS232/485, Optional IEEE(*19)(*20) Inter 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lou		- Ree - BB - 44 - PP - PP - LL - EE - PC - PP - CO - PP - O O O - O O O - O O O - O O O - O O O - O O O - O O O O - O O O O - O	dge trigger y electrical \( \cdot \) \( \sim \sim \) \(	r: tw=10us r foltage: 0~0. (500ohm im o 4 identical uni ss can be cor typut power te se resistance le Output rison on ports or tl to 100 steps  20 d output volt ol output volr ol output curre del output volr ol output curre del output volv ol output curre del output volv old output curre	ninimm. Tr, TsV/2-30V or dipedance)=Fail units in Masteits. Refer to insinected in Dais a proggramn. Resistance rail e and Output fiel front panel. can be stored  30 age ent+0.2% of railtage int	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.
FUNCTIONS AND FEATURES  1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, L SZ32/485, Optional IEEE(*19)(*20) Inter 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy		- Re e e e e e e e e e e e e e e e e e e	dge trigger y electrical \( \cdot \) \( \sim \sim \) \(	r: tw=10us r /oltage: 0~0. (500ohm im o 4 identical identical uni ss can be core tput power te se resistance le Output rise on ports or t to 100 steps  20 d output volt output currue ded output currue ded output cur	ninimum. Tr, TsV/2-30V or dipoedance)=Fail units in Masteits. Refer to insinected in Dais to a proggramn. Resistance rare and Output fue front panel. can be stored  30 age ent+0.2% of ralltage trrent	rf=1us Maxir y contact.  //Slave mode. truction mam y chain to syneed value. Pronge: 1~1000r all slew rate. F	Refer to instrual. nchronize the gramming virogramming vicells. Activation	uction manua ir turn-on and a the commur ning via the co range: 0.0001 on by commar	il.  Iturn-off.  Inication ports  Dominication  P99.99 V/mS  Inication the complete	or the front pa ports or the f ec. or A/mSec	anel. front panel. . Programmin orts or by the	g via the front panel.

# **G**ENESYS<sup>™</sup> 5kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		V	10-300	20	30	40	50	60	80	100-30	150	200	300	400	500	600
2.Rated output current (*2)		A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
IN OT CHAINCIENSTICS		_			dels: 170~2					100	150	200	300	100	300	000
1.Input voltage/freq. 3 phase, 3 v	vire + Ground (*4)								/400/415\	/ac)						
									400/415/4		BOVac)					
	3-Phase, 200V models:		17.5A @ 2	00Vac												
2. Maximum Input current at 100% load	3-Phase, 400V models:		9.2A @ 38	30Vac												
100 % 1084	3-Phase, 480V models:		9.2A @ 38	30Vac												
3.Power Factor (Typ)					, rated ou							,	,			
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)		91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		Α	Less than	50A												
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.01% of	rated out	put voltag	e										
2.Max. Load regulation (*8)					out voltag											
3.Ripple and noise (p-p, 20MHz)	(*Q)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	( 2)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
											20	43	00	80	80	100
5.Temperature coefficient									s warm-u		. 12 . 1	10.				
6.Temperature stability			_								nt line, loa	id & temp.				
7. Warm-up drift					T			T	utes follo		T					
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-brod response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11 Transiant rosponse time		m.c									hange 10~			ut current.	Output s	et-point:
11.Transient response time		mS									nS, for mo					
12.Start up delay		Sec	Less than	5 Sec												
CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			_		put currer		30		00	100	150	200	300	100	300	000
2.Max. Load regulation (*13)			_		put currer											
	\A/ 51  - 1841  - (*1.4)		≤1200		<del>'</del>		≤130	-100	≤70	≤45	- 45	- 45	-15	-12	-10	-0
3.Ripple r.m.s. @ rated voltage. B	.W 5HZ~1MHZ (*14)	mA		≤600	≤300	≤150		≤100			≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C	10V~100\						ving 30 m							
									ing 30 mir							
6.Temperature stability			_								nt line, loa					
7. Warm-up drift											following		١.			
			150V~60	0V: Less th	nan +/-0.1	5% of rate	d output o	urrent ov	er 30 mini	utes follov	ving powe	er on.				
ANALOG PROGRAMMING AND I	MONITORING (ISOI ATED	FROM T	HE OUTPL	JT)												
1.Vout voltage programming					~10V use	r selectah	le Accura	cy and line	earity: +/-	0 15% of r	ated Vout.					
2.lout voltage programming (*1:	5)								earity: +/-							
3.Vout resistor programming	5)										5% of rate	d Vout				
	-\				nm ruii sc						5% of rate					
4.lout resistor programming (*15	5)									111.		a lout.				
5.Output voltage monitor	5)		0~5V or 0	)~10V, use	er selectak	le. Accura	cy: +/-0.5	% of rated	Vout.			u lout.				
	5)		0~5V or 0	)~10V, use	er selectak er selectak	le. Accura	cy: +/-0.5	% of rated	Vout.	11ty. 17 0						
5.Output voltage monitor			0~5V or 0	)~10V, use		le. Accura	cy: +/-0.5	% of rated	Vout.							
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL		  T)	0~5V or 0 0~5V or 0	)~10V, use )~10V, use	er selectab	le. Accura le. Accura	icy: +/-0.5 icy: +/-0.5	% of rated % of rated	l Vout. I lout.		f. Maximui		: 30V. Max	rimum Sin	k Current:	10mA.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal			0~5V or 0 0~5V or 0	)~10V, use )~10V, use pply outp	er selectab	ole. Accura ole. Accura or. Open co	icy: +/-0.5 icy: +/-0.5 ollector. O	% of rated % of rated	l Vout. I lout. On. Outp	ut Off: Of	f. Maximui e· 30V Ma	m Voltage			k Current:	10mA.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	  T)	0~5V or 0 0~5V or 0 Power su	)~10V, use )~10V, use pply outp onitor. Op	er selectak out monito en collect	ole. Accura ole. Accura or. Open co	icy: +/-0.5 icy: +/-0.5 ollector. O de: On. CV	% of rated % of rated utput On: / mode: O	l Vout. l lout. On. Outp	ut Off: Ofi um Voltag	e: 30V, Ma	m Voltage ximum Sii	nk Curren	t: 10mA.		
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	ATED FROM THE OUTPUT	  T) 	0~5V or 0 0~5V or 0 Power su CV/CC Mo	0~10V, use 0~10V, use pply outp onitor. Op visable and	er selectab out monito en collect alog prog	or. Open co or. CC mo ramming o	ocy: +/-0.5 ocy: +/-0.5 ollector. O de: On. CV	% of rateo % of rateo butput On: / mode: O	On. Outp	ut Off: Ofi um Voltag dry contac	e: 30V, Ma ct. Remote	m Voltage ximum Sii 2: 0~0.6V c	nk Curren or short. L	t: 10mA. ocal: 2~30	V or open	
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	  T) 	0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D analog pr	pply outponitor. Oprogrammin	er selectab out monito en collect alog prog ng control	or. Open co or. CC mo ramming o	ocy: +/-0.5 ocy: +/-0.5 ollector. O de: On. CV control by ignal. Ope	% of rateo % of rateo utput On: / mode: O electrical	On. Outp ff. Maximu signal or	ut Off: Of um Voltag dry conta On. Local:	e: 30V, Ma ct. Remote Off. Maxir	m Voltage ximum Sii e: 0~0.6V o num Volta	nk Curren or short. L ige: 30V, N	t: 10mA. ocal: 2~30 laximum S	V or open	
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPUT	  T)  	0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D analog pn Enable/D	0~10V, use 0~10V, use pply outp onitor. Op visable and ogrammilisable PS	out monitorien collect alog prograg ng control output by	or. Open co or. CC mo ramming of monitors	ocy: +/-0.5 ocy: +/-0.5 ollector. O de: On. CV control by ignal. Ope signal or	% of rateo % of rateo utput On: / mode: O electrical n collecto dry conta	On. Outp ff. Maximu signal or r. Remote:	ut Off: Ofi um Voltag dry contac On. Local: or short,	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	m Voltage ximum Sii e: 0~0.6V c num Volta open. User	nk Curren or short. L ige: 30V, M r selectabl	t: 10mA. ocal: 2~30 laximum S le logic.	V or open	
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5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPUT	  T)  	Power su CV/CC Me Enable/D analog pr Enable/D Enable/D Two open	pply outponitor. Op visable and ogrammir visable PS visable PS n drain pro	out monito en collect alog prog ng control output by output by	or. Open co or. CC mo ramming of monitor s electrical electrical	ocy: +/-0.5 ocy: +/-0.5 obllector. O de: On. Cv control by ignal. Ope signal or signal or s. Maximu	% of ratec % of ratec wutput On: / mode: O electrical n collecto dry conta dry conta	I Vout. I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote:	ut Off: Off um Voltag dry contac On. Local: or short, e: 0~0.6V imum sinl	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1	m Voltage ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	or short. La ge: 30V, M r selectable V or open unted by	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open iink Currer	it: 10mA.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPUT	   	0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D analog pr Enable/D Enable/D Two oper	pply outponitor. Op visable ana ogrammin visable PS visable PS n drain pro m low le	er selectal out monito en collect alog prog ng control output by output by ogramma vel input	or. Open coor. CC mo ramming of monitor selectrical electrical ble signals voltage:	ocy: +/-0.5 ocy: +/-0.5 oblector. O de: On. CV control by ignal. Ope signal or signal or s. Maximu = 0.8V,Mi	% of rated % of rated futput On: / mode: O r electrical in collecto dry conta dry conta m voltage	On. Outp ff. Maximusignal or r. Remote: ct. 0~0.6V ct. Remote:	ut Off: Off um Voltag dry contac On. Local: 'or short, e: 0~0.6V imum sinli	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Lo c current 1 Itage = 2	m Voltage ximum Sii e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. L gge: 30V, M r selectabl oV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open iink Currer	it: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig	ATED FROM THE OUTPUT	   	0~5V or 0 0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D analog pr Enable/D Two oper Maximu positive	pply outponitor. Oppisable and ogramminisable PS or drain promitor. Oppisable and ogramminisable PS or drain promitor low leedge trig	out monitorien collect alog programg control output by output by ogramma vel input gger: tw-	or. Open co or. CC mo ramming of monitor s electrical electrical ble signals voltage =10us mir	cy: +/-0.5  cy: +/-0.5  cy: +/-0.5  collector. O  de: On. CV  control by  ignal. Ope  signal or  signal or  s. Maximu  = 0.8V,Minimum. T	% of ratec % of ratec wutput On: / mode: O electrical n collecto dry conta dry conta m voltage inimum I r,Tf=1us I	On. Outp ff. Maximusignal or r. Remote: ct. 0~0.6V ct. Remote:	ut Off: Off um Voltag dry contac On. Local: 'or short, e: 0~0.6V imum sinli	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1	m Voltage ximum Sii e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. L gge: 30V, M r selectabl oV or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open iink Currer	it: 10mA.
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 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 READB, RS232/485, Optional IEEE(*15 1.Vout programming accuracy (* 2. lout programming resolution 5. Vout readback accuracy	ACK (USB, LAN, 9)("20) Interfaces)		Power su CV/CC Me Enable/D analog pp Enable/D En	poly outponitor. Opinion of the poly outponitor. Opinion o	er selectaber selectab	ole. Accura or. Open co or. CC mo or. CC mo or. CC mo or.	cy: +/-0.5  cy: +/	% of ratec ratec ratec for conta dry conta dry conta dry conta dry conta dry conta dry conta conta dry conta dry conta dry conta dry conta conta dry conta m woltage nimum h r,Tf=1us I rict.  mode. Ref n manual. to synchr ue. Progra 1000m Conta rate. Prog mory cells	On. Outp ff. Maxims signal or r. Remote 25V, Max igh level Maximun  er to instr onize thei mming vie Programn ramming . Activatic	ut Off: Off:  Im Voltag dry contai On. Local: or short, e: 0~0.6V of imum sinli input von, Min de  uction ma  ir turn-on a the comi ning via th range: 0.0 on by com	e: 30V, Mact. Remote Off. Maxin 2~30V or c or short. L c current 1 ltage = 2 lay betwee nual. For r and turn- municatio ne commu 1001~999.	m Voltage ximum Sine : 0 ~ 0.6V c mum Voltage voltage coal: 2 ~ 30 00mA (Sh .5V, Maxi een 2 pul more pow off. n ports or nication p 99 V/mSec	nk Curren: or short. L. gge: 30V, M r selectabl W or open unted by imum hig ses 1ms.  er please the front orts or th or A/mSi unication	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level in consult w panel. e front pa ec. Progra	IV or open ink Currer  ) nput = 5V  ith Factor  nel.  mming vi  by the fron	. tt: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 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 READB. RS232/485, Optional IEEE(*15 1.Vout programming accuracy (* 2. Nout programming accuracy (* 3. Vout programming resolution 4. lout programming resolution	ACK (USB, LAN, 9)("20) Interfaces)		Power su CV/CC Me Enable/D analog pp Enable/D En	poly outponitor. Opinion of the poly outponitor. Opinion or opinion of the poly outponitor. Opinion outpon	er selectaber selectab	ole. Accura or. Open co or. CC mo or. CC mo or. CC mo or.	cy: +/-0.5  cy: +/	% of ratec ratec ratec for conta dry conta dry conta dry conta dry conta dry conta dry conta conta dry conta dry conta dry conta dry conta conta dry conta m woltage nimum h r,Tf=1us I rict.  mode. Ref n manual. to synchr ue. Progra 1000m Conta rate. Prog mory cells	On. Outp ff. Maxims signal or r. Remote 25V, Max igh level Maximun  er to instr onize thei mming vie Programn ramming . Activatic	ut Off: Off:  Im Voltag dry contai On. Local: or short, e: 0~0.6V of imum sinli input von, Min de  uction ma  ir turn-on a the comi ning via th range: 0.0 on by com	e: 30V, Mact. Remote Off. Maxin 2~30V or c or short. L c current 1 ltage = 2 lay betwee nual. For r and turn- municatio ne commu 1001~999.	m Voltage ximum Sine : 0 ~ 0.6V c mum Voltage voltage coal: 2 ~ 30 00mA (Sh .5V, Maxi een 2 pul more pow off. n ports or nication p 99 V/mSec	nk Curren: or short. L. gge: 30V, M r selectabl W or open unted by imum hig ses 1ms.  er please the front orts or th or A/mSi unication	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level in consult w panel. e front pa ec. Progra	IV or open ink Currer  ) nput = 5V  ith Factor  nel.  mming vi  by the fron	. tt: 10mA.
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. Series operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READB, RS232/485, Optional IEEE(*15) 1. Vout programming accuracy (* 1. Lout programming resolution 5. Vout readback accuracy 6. lout readback acc	ACK (USB, LAN, )("20) Interfaces) 16) 15)		Power su CV/CC Me Enable/D Ena	poly outponitor. Opinion of the poly outponitor. Opinion or opinion of the poly outponitor. Opinion outpon	er selectaber selectab	ole. Accura ole. A	cy: +/-0.5  cy: +/	% of ratec ratec has produce	On. Outp ff. Maximus signal or r. Remote: 25V, Max igh level Maximun er to instr onize thei mming via Program ramming Activatic	ut Off: Off: m Voltag dry contain On. Local: or short, e: 0~0.6V imum sinlingut von, Min de uction mair turn-on a the comining via thrange: 0.0 on by com	e: 30V, Mact. Remote Off. Maxir 2~30V or corshort. Lick current 1 Itage = 2 lay betwee nual. For r and turn- municatio the communications communications are communications and via 1 150	m Voltage ximum Sine :0 ~ 0.6V c mum Oolta ppen. User ocal: 2 ~ 30 00mA (Sh .5V, Maxi een 2 pul  more pow off. n ports or nication p 99 V/mSec the comm	nk Curren: or short. L gg: 30V, M gg: 30V, M gg: 30V, M gg: selectabl N or open unted by imum hig ses 1ms.  er please the front oorts or the c. or A/mS unication 300	t: 10mA. ocal: 2~30 laximum S le logic. b. 27V zener gh level in consult w panel. e front pa ec. Progra ports or b	ith Factor;  nel.  mming vi  500	tit: 10mA.

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

PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			Output sl User pres	nut-down etable. Re	when po	wer suppl	y changes r ycle in auto	node from start mod	n CV or Po le, by Pow	wer Limit 1 ver Switch,	to CC mod by OUTPL	e or from IT button,	CC or Pow by rear pa	er Limit to nel or by	CV mode	ation.
2.Over-voltage protection (OVP)			Output s	nut-down			recycle in a									
3.Over -voltage programming ran		V	0.5~12				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				ated outp												
5.Output under voltage limit (UVL	_)						mit. Does n		n analog p	programmi	ng. Preset	by front	oanel or co	mmunica	tion port.	
6.Over temperature protection	1)						by autosta	rt mode.								
7. Output under voltage limit (UVI	<u>-)</u>					below lin										
8. Output under voltage protection	on (UVP)		Prevents mode, by	Power Sw	nt of Vout vitch, by C	below lim	nit. P.S outp utton, by re	ut turns O ar panel o	off during or by comr	under volt nunicatior	age condi 1.	tion. Rese	et by AC in	out recycle	e in autost	art
FRONT PANEL																
1.Control functions			Multiple	options w	ith 2 Enco	ders										
			Vout/lou	t/Power Li	imit manu	ıal adjust										
	,			/UVP man												
							oldback, O									
							of LAN,IEEE	,RS232,RS	485,USB	or Optiona	l commur	ication in	terface.			
				N/OFF. Fro			-f Dl D-4		- 10 1 -				-			
							of Baud Rat /oltage/resi						~			
							of Voltage/				K/ IUK PIO	grannini	9			
2.Display							output vol			3V/10V.						
2.5.5piay							utput curre									
3.Front Panel Buttons Indications							OMMUNIC			N,CONFIGL	JRATION, S	SYSTEM, S	EQUENCE	₹.		
4. Front Panel Display Indications			Voltage, (commur	Current, Polication), F	ower, CV, RS/USB/L <i>A</i>	CC, CP, Ext AN/IEEE co	ternal Volta mmunicati	ge, Extern on, Trigge	nal Curren er, Load/St	t, Address, tore Cell.	, LFP, Auto	start, Safe	etstart, Fol	dback V/I,	Remote	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C 1	00% load												
2.Storage temperature			-30~85°C		•	-	-		-		-		-	-		
		%		RH (no cor	adonestio.	n)										
3.Operating humidity			_						-				-			
4.Storage humidity		%		RH (no cor												
5.Altitude (*17)			Operatin	g: 10000ft	(3000m),	output cu	rrent derat	ing 2%/10	0m or Ta	derating 1°	C/100m al	oove 2000	m. Non op	erating: 4	0000ft (12	000m).
MECHANICAL																
1.Cooling			Forced ai	r cooling l	by interna	l fans. Air	flow direct	ion: from F	ront pan	el to powe	r supply re	ear				
2.Weight		kg	2.7kW/3.4	1kW - Less	than 6.25	skg.			5kW - Le	ss than 7.5	kg.					
3.Dimensions (WxHxD)		mm	W: 423, W: 423,	H: 43.6, [ H: 43.6, [	D: 441.5 ( D: 553.2 (	Without Including	busbars ar g busbars a	nd busba and busb	rs cover) ars cove	, r) (Refer to	o Outline	drawing	1).			
4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, t	test conditi	on Annex	C - 2.1.3.1							
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacked	i.								
SAFETY/EMC																
1.Applicable standards:	Safety	Ι	LII 61010	1 ((1)	2 No 6101	0 1 IEC610	010-1, EN61	010 1								
1.Applicable standards:	Salety						, J5, J6, J7, J		2 10 /same	munication	ontions)	ara Nan L	lazardane			
1.1. Interface classification			60≤Vout	≤600V Mo	dels: Outp	out & J8 (s	ense) are ha	azardous,	J1, J2, J3, .	J4, J5, J6, J7	7 & J9 (con	nmunicati	on options	s) are Non		s.
1.2 Withstand voltage			Input - G 60V≤Vou Output & Output & 100V <vo Output &amp; Output &amp;</vo 	round: 28 ut≤100V N 3 J8 (sens 3 J8 (sens out≤600V 3 J8 (sens	335VDC Models: Ir se) - J1, J se) - Grou Models: se) - J1, J se) - Grou	1min. 1put – Ou 2, J3, J4, Ind: 1500 Input – O 2, J3, J4, Ind: 2500	J8 (sense) itput & J8 ( J5, J6, J7 VDC 1min, utput & J8 J5, J6, J7 VDC 1min.	sense), J & J9 (con Input - G (sense), c & J9 (con	1, J2, J3, nmunica iround: 2 J1, J2, J3	J4, J5, J6 tion optior 835VDC 1 , J4, J5, J	5, J7 & J9 ns): 850VI Imin. 6, J7 and	(commu DC 1min. J9 (comr	nication o	otions): 4	242VDC 1	
1.3 Insulation resistance			100Mohr	n at 25°C,	70%RH. C	Output to	Ground 50	0VDC								
2.Conducted emmision			_				, Annex H t		FCC Part 1	15-A, VCCI-	Α.					
3.Radiated emission			_				, Annex H t									$\neg \neg$
4. EMC compliance	EMC(*18)					/ironment					,					
ze compilance	2( 10)		1.20/21401	20 7 3 11101	asarar CIII	Jiiiiiciii										

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

# **G**ENESYS<sup>™</sup> **GSP10kW SERIES SPECIFICATIONS**

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
1.Rated output voltage(*1)		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
3.Rated output power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
			3-Phase,	200V mod	lels: 170~2	65Vac, 47	~63Hz (Cc	vers 200/2	230Vac)							
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase,	100V mod	lels: 342~4	160Vac, 47	~63Hz (Co	overs 380/	/400/415Va	ac)						
					lels: 342~5	28Vac, 47	~63Hz (Co	vers 380/4	400/415/4	40/460/480	0Vac)					
2. Maximum Input current at	3-Phase, 200V models:		35A @ 20													
100% load	3-Phase, 400V models:		18.4A @ 3													
	3-Phase, 480V models:		18.4A @ 3													
3.Power Factor (Typ)						put powe										
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)		91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)		A	Less than	100A												
6.AC line phase imbalance		%	< 5%													
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.01% of	ated outp	out voltag	e										
2.Max. Load regulation (*8)			0.01% of	ated outp	out voltag	e +5mV										
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C	50PPM/°0	from rate	ed output	voltage, f	ollowing 3	30 minute:	s warm-up	).						
6.Temperature stability			0.01% of	ated Vout	t over 8hrs	interval f	ollowing:	30 minute:	s warm-up	. Constant	t line, load	d & temp.				
7. Warm-up drift			Less than	0.05% of	rated out	out voltag	e+2mV ov	er 30 minu	utes follov	ving powe	r on.					
8.Remote sense compensation/w	vire (*10)	٧	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.20wii-prog.iespolise tilile:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	Time for	utput vol	ltage to re	cover with	nin 0.5% o	fits rated	output fo	r a load ch	ange 10~	90% of rat	ed output	t current. C	utput set	-point:
					nse. Less tl	han 1mS, f	or models	up to and	lincluding	g 100V. 2m	S, for mod	dels above	100V.			
12.Start up delay		Sec	Less than	/ Sec									-			
CONSTANT CURRENT MODE																
1.Max. Line regulation (*7)			0.05% of	ated outr	out curren	it.										
2.Max. Load regulation (*13)					out curren											
3.Ripple r.m.s. @ 10% rated voltage	ge. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage	e. B.W 5Hz~1MHz. (TA25°C)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5 T		DDA4/9C	10V~100\	100PF	PM/°C fror	n rated ou	tput curre	nt, follow	ing 30 mii	nutes warr	n-up.					
5.Temperature coefficient		PPM/°C	150V~60	V 70PPN	M/°C from	rated out	put curre	nt, followir	ng 30 min	utes warm	-up.					
6.Temperature stability			0.01% of	ated lout	over 8hrs	. interval f	ollowing 3	30 minute:	s warm-up	. Constant	t line, load	d & tempe	rature.			
7. Warm-up drift			10V~100\	model: L	ess than +	-/-0.25% o	f rated ou	tput curre	nt over 30	minutes f	ollowing	power on.				
7. Waitii-up utiit			150V~600	N/ Less th	an 1/015	-0/ 6 .			× 20 min	A E - II						
				7 V . LC33 (11	IdTI +/-U.13	% or rated	d output c	urrent ove	er 30 minu	tes followi	ing powei	ron.				
ANALOG PROGRAMMING AND N	MONITORING (ISOI ATED	FROM T			1411 +/-0.13	ow or rated	output c	urrent ove	21 30 1111111	tes followi	ing powei	r on.				
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPU	JT)								r on.				
1.Vout voltage programming			<b>HE OUTPU</b> 0~100%,	J <b>T)</b> 0~5V or 0-	~10V, user	selectabl	e. Accurac	y and line	arity: +/-0	.15% of rat	ted Vout.	r on.				
1.Vout voltage programming 2.lout voltage programming (*15			0~100%, 0~100%,	JT) 0~5V or 0- 0~5V or 0-	~10V, user ~10V, user	selectabl selectabl	e. Accurac e. Accurac	y and line y and line	arity: +/-0	.15% of rat	ted Vout.					
1.Vout voltage programming     2.lout voltage programming (*15     3.Vout resistor programming	5)		0~100%, 0~100%, 0~100%,	JT) 0~5V or 0- 0~5V or 0- 0~5/10Ko	~10V, user ~10V, user hm full sca	r selectabl r selectabl ale, user se	e. Accurad e. Accurad electable.	y and line y and line Accuracy	earity: +/-0 earity: +/-0 and linear	.15% of rate .4% of rate ity: +/-0.59	ted Vout. ed lout. % of rated	l Vout.				
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)		0~100%, 0~100%, 0~100%, 0~100%,	JT) 0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10Kol	~10V, user ~10V, user hm full sca	r selectabl r selectabl ale, user se ale, user se	e. Accurac e. Accurac electable. electable.	y and line y and line Accuracy Accuracy	earity: +/-0 earity: +/-0 and linear and linear	.15% of rat	ted Vout. ed lout. % of rated	l Vout.				
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	  	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10Kol ~10V, use	~10V, user ~10V, user hm full sca hm full sca r selectab	r selectabl r selectabl ale, user se ale, user se lle. Accura	e. Accurade. Accurade lectable. electable. cy: +/-0.5	y and line y and line Accuracy Accuracy %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear I Vout.	.15% of rate .4% of rate ity: +/-0.59	ted Vout. ed lout. % of rated	l Vout.				
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	   	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10Kol ~10V, use	~10V, user ~10V, user hm full sca hm full sca r selectab	r selectabl r selectabl ale, user se ale, user se	e. Accurade. Accurade lectable. electable. cy: +/-0.5	y and line y and line Accuracy Accuracy %. Of rated	earity: +/-0 earity: +/-0 and linear and linear I Vout.	.15% of rate .4% of rate ity: +/-0.59	ted Vout. ed lout. % of rated	l Vout.				
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA	5)	   	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10Kol ~10V, use ~10V, use	~10V, user ~10V, user hm full sca hm full sca r selectab r selectab	r selectabl r selectabl ale, user se ale, user se le. Accura le. Accura	e. Accurac e. Accurac electable. electable. cy: +/-0.5°	ey and line ey and line Accuracy Accuracy %. Of rateo %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout.	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59	ted Vout. ed lout. % of rated % of rated	l Vout. I lout.				
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	5)	    	#E OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0- 0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10Kol ~10V, use ~10V, use	~10V, user ~10V, user hm full sco hm full sco r selectab r selectab ut monito	r selectabl r selectabl ale, user se ale, user se le. Accura le. Accura	e. Accurace. Accurace. Accurace electable. electable. cy: +/-0.50 cy: +/-0.50 ollector. O	y and line y and line Accuracy Accuracy %. Of rateo %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout. On. Outpu	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59	ted Vout. ed lout. % of rated % of rated Maximun	l Vout. I lout. n Voltage:	-	mum Sink	Current: 1	0mA.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	    	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5V or 0- 0~5V or 0- 0~5V or 0- 0~5/10Kol 0~5/10K, use ~10V, use oply outp	~10V, user ~10V, user hm full sca hm full sca r selectab r selectab ut monito en collect	r selectabl r selectabl ale, user se ale, user se le. Accura le. Accura or. Open co or. CC mod	e. Accurac e. Accurac e. Accurac electable. cy: +/-0.5° cy: +/-0.5° cy: +/-0.5°	ey and line ey and line Accuracy Accuracy 6. Of ratec 6. Of ratec utput On: mode: Of	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout. On. Outpu	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59 ut Off: Off. m Voltage	ted Vout. ed lout. % of rated % of rated Maximum	l Vout. I lout. n Voltage: kimum Sin	k Current:	10mA.		0mA.
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 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 6. Slew rate control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBAC( 7. Arbitrary waveforms  PROGRAMMING AND READBAC( 7. Arbitrary maning accuracy (*1 2. Lout programming accuracy (*1 3. Vout programming accuracy (*1 5. Vout readback accuracy (*15) 6. Lout readback accuracy (*15)	ATED FROM THE OUTPUT  In als  K (USB, LAN, *20) Interfaces)  Ited output voltage)		HE OUTPL  0~100%, 0~100%, 0~100%, 0~100%, 0~5V or C  0~5V or C  0~5V or C  10~5V or C  10~	DT)  0~5V or 0- 0~5V o	~10V, user ~10V, user ~10V, user hm full sc. hm full sc. r selectab r selecta	r selectabl r selectabl ale, user se ale, Accura le. Accura le. Accura r. Open co or. CC mo or. CC mo or. Camming c monitor si electrical electrical electrical ole signals voltage = nimum. Tr (2~30V or dance)=Fa more powe ected in Da proggram estatance in note powe enter powe extending in note powe ex	e. Accurace control be e. Con. CV ontrol by ignal or or signal or o	cy and line cy and line cy and line Accuracy 6. Of ratec 6. Of ra	carity: +/-0 carity: +/-0 carity: +/-0 carity: +/-0 and linear d Vout. d lout.  On. Output f. Maximu signal or c r. Remote: ct. 0~0.6V ct. Remote 25V, Maxi igh level igh level igh level ramming via programm camming r Activation 80	at Off: Off.  Turn-on a the comming via the ange: 0.00  at the comming via the ange: 0.00  at the comming via the ange: 0.00  at the comming via the ange: 0.00  by comming via the ange: 0.00  by comming via the ange: 0.00  by comming via the ange: 0.00	Maximum: 30V, Maximum: 30V, Maximum: 30V or operation of short Lccurrent 10t tage = 2, even 2 puls	n Voltage: kimum Sin: 20~0.6V or mum Voltagen. User: ocal: 2~30\ 000MA (Shu SV, Maxinses Ims.	k Current: r short. Lo gge: 30V, M selectable / or open. unted by 2 num high  the front p orts or the or A/mSe unication p 300	10mA. cal: 2~30V Maximum S e logic.  7V zener) h level inp  banel. front pane c. Program ports or by  400	or open. ink Currer  out = 5V p  el. iming via the front	the panel.

# **G**ENESYS<sup>™</sup> **GSP15kW SERIES SPECIFICATIONS**

A   1500 (**)   750   510   375   300   255   195   150   102   75   51   39   30   2	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
								_								600
NPUT CHARACTERISTICS   V	2.Rated output current (*2)	Α	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3   3   3   3   3   3   3   3   3   3	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
Sphase, 4007 models   32-4609(c, 47-63912 (Covers 380)4000415/402   3-5466 (Sport) models   3-5466 (	INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Spinus floys current at 107% load   Spinus   2001 models:   3-Phase   2007 models:   3-Phase   3-Ph																
3. Phase, 2009 models:   3. Phase, 4009 mode	1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)															
2. Abas must in spot current   3. Phase, 460V models:   276.A; 880Vac   276.	2 Phase 2007 dala				els: 342~52	28Vac, 47 <sup>-</sup>	~63Hz (Co	vers 380/4	100/415/4	40/460/48	(OVac					
3-Phase, 480W models    3-Phase, 480W models    0.50 % go. 0.03 980vc, rated output power.	2. Maximum Input current at	┨														
3Power Factor (Typ)		1														
Shrington Limited   Shrington   Shringto					rated out	out power	r.									
6AC [me phase imbalance					91	91	91	91	91	91	91	91	92	92	91	92
CONSTANT VOLTAGE MODE				150A												
Max. Last regulation (*7)	6.AC line phase imbalance	%	< 5%													
2Max Load regulation (*8)	CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
SRipple and noise (p-p_20MHz) (*9)		_														
ARDIPOLE MIN. SH2-MIHE (**P)	-															
Stemperature coefficient   PMMC   SOPPM/F (from rated output voltage, following 30 minutes warm-up. Constant line, load & temp.		_				_	_			_	_				_	480
Comparature stability											20	45	60	80	80	100
East han 0.05% of rated output voltage = 2m / over 30 minutes following power on.	_ ·										t line lea	d & tomp				
Remote sense compensation/wire (*10)												u & temp.				
2Up-prog. Response time (*11)	-	_			T			1	1		1	5	5	5	5	5
10.Down-progresponse time:   Full load (*11)   mS   50   50   80   80   80   80   80   100   100   100   100   100   150   200   300   400   400   400   400   300   11.Transient response time:   mS   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current.   Time for output voltage to recover within 0.5% of its rated output for making 10-00%.   Time for output voltage to recover within 0.5% of its rated output current.   Time for output voltage 10-00%.   Time for out	·			_		_	_		_	_					_	100
No load (**12)	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10-100%, Local sense, Less than 1mS, for models up to and including 100V, 2mS, for models above 100V.	No load (*12)	mS														3000
12Start up delay	11.Transient response time	mS												t current.	Output se	t-point:
CONSTANT CURRENT MODE	<u>'</u>		-		se. Less th	a11 1M5, f0	or models	up to and	including	j 100V. 2ñ	ıo, ıor moı,	ueis above	= 10UV.			
1.Max. Line regulation (*7)	. ,								1	1						
2.Max. Load regulation (*13)			_				50	60	80	100	150	200	300	400	500	600
3.Ripple r.m.s. @ 10% rated voltage B.W SHz-IMHz. (*I+4)   mA   2000   120   600   300   250   180   100   70   45   45   15   15   12   12   14.Ripple r.m.s. @ 10% rated voltage B.W SHz-IMHz. (*IA 25°C)   mA   1200   700   300   150   130   90   60   35   23   23   7.5   7.5   8   100% rated voltage B.W SHz-IMHz. (*IA 25°C)   mA   1200   700   300   150   130   300   90   60   35   23   23   7.5   7.5   8   100% rated voltage programming   10V-100V 100PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current over 30 minutes warm-up.   150V-600V 70PPM/°C from rated output current over 30 minutes following power on.   150V-600V 70PPM/°C from rated output current following power on.   150V-600V 70PPM/°C from rated output current following power on.   150V-600V 70PPM/°C fro		_														
4.Ripple r.m.s. @ 100% rated voltage. 8.W 5Hz~IMHz. (TA 25°C)		_	•		T		250	100	100	70	15	45	15	15	12	10
S.Temperature coefficient    PPM/°C   10V-100V   100PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V   70PPM/°C from rated output current, following 30 minutes warm-up.   150V-600V   70PPM/°C from rated output current, following 30 minutes warm-up.   10V-10V   10V-10V		_	_				-	_	+	+			_			6
5.Eemperature coefficient  6.Temperature stability  7. Warm-up drift  100-100W model: Less than +/-0.25% of fated output current over 30 minutes warm-up. Constant line, load & temperature.  100-100W model: Less than +/-0.25% of fated output current over 30 minutes following power on.  8. MALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)  1. Vout voltage programming  1. 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.15% of fated Vout.  2. Lout voltage programming (*15)  3. Vout resistor programming (*15)  4. 10 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  4. Lout resistor programming (*15)  4. 10 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  4. Lout resistor programming (*15)  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  5. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  6. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  6. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  6. 0 -100%, 0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of fated Vout.  6. 0	•											23	7.5	7.5		
7. Warm-up drift	5.Temperature coefficient	PPM/°C														
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)   1.You't voltage programming	6.Temperature stability		0.01% of ra	ated lout o	over 8hrs.	interval fo	ollowing 3	0 minutes	warm-up	. Constar	t line, load	d & tempe	rature.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)  1.Vout voltage programming "15)	7 Warm-up drift															
1.Vout voltage programming	7. Waim-up unit		150V~600	V: Less tha	an +/-0.159	% of rated	l output ci	urrent ove	r 30 minu	tes follow	ing powe	r on.				
2.lout voltage programming (*15)	ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPU	T)												
3.Vout resistor programming	1.Vout voltage programming		0~100%, 0	~5V or 0~	10V, user	selectable	e. Accurac	y and line	arity: +/-0	.15% of ra	ted Vout.					
4.lout resistor programming (*15)	2.lout voltage programming (*15)		0~100%, 0	~5V or 0~	10V, user	selectable	e. Accurac	y and line	arity: +/-0	.4% of rat	ed lout.					
5.Output voltage monitor (*23)																
6.Output current monitor (*15) (*23) 0-5V or 0~10V, user selectable. Accuracy: +/-0.5%, of rated lout.  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)  1. Power supply OK #1 signal Power supply output monitor. Open collector. Output On: On. Output Off. Off. Maximum Voltage: 30V, Maximum Sink Current: 10m.  2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.  3. LOCAL/REMOTE Analog control Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.  4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10f.  5. ENABLE/DISABLE Signal Enable/Disable PS output by electrical signal or dry contact. O~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. Remote: 0~0.6V or short. Local: 2~30V or open.  7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)  8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trig tw=10 unimum. Tr, 15~1 us Maximum, Min delay between 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 VSY=OK, 0V (5000hm impedance)=Fail		_								ity: +/-0.5	% of rated	lout.				
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)   1. Power supply OK #1 signal		_														
1. Power supply OK #1 signal Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10m. 2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10m. 3. LOCAL/REMOTE Analog control Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. 4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10 open. 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. Remote: 0~0.6V or short. Local: 2~30V or open. 7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trig tw=10 unimimum. Tr, If=10 us Maximum, Min delay between 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 Sy=OK, OV (500ohm impedance)=Fail	•		0~37 01 0	~10v, user	selectable	e. Accurac	_y: +/-0.5%	o. Oi rateu	iout.							
2. CV/CC signal																
3. LOCAL/REMOTE Analog control Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.  4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10 S. 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. Remote: 0~0.6V or short. Local: 2~30V or open. User selectable logic.  7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)  8. TRIGGER IN / TRIGGER OUT signals Waximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigonal signal or dry contact.  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	117 3	_													Current:	10mA.
4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10 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. Remote: 0~0.6V or short. Local: 2~30V or open. 7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trig. 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		_													/ or once	
5. ENABLE/DISABLE Signal		_														
6. INTERLOCK (ILC) control  7. Programmed signals  8. TRIGGER IN / TRIGGER OUT signals  9. DAISY_IN/SO control signal															Cuite	IVIIIA.
7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)  8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge tright w=10us minimum. Tr,T=1us Maximum, Min delay between 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												<u>.                                      </u>				
tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 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 (5000hm impedance)=Fail	7. Programmed signals		Two open	drain pro	grammab	le signals.	Maximun	n voltage	25V, Maxi	mum sink	current 10	00mA (Shi	unted by 2	27V zener)		
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	8. TRIGGER IN / TRIGGER OUT signals		Maximum	low level	input volt	age = 0.8	V,Minimu	m high lev	el input v	oltage = 2	2.5V, Maxi	mum high	level inp	ut = 5V po	sitive edg	e trigger:
10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500ohm impedance)=Fail									n 2 pulses	ıms.						
		_														
FUNCTIONS AND FEATURES			, JV-UK,	. v + (2000)	pe0	.arreej-rd										
The state of the s				1.000					1.5							
1. Parallel operation     Two identical GSP units. For more power please consult with Factory.       2. Series operation     Consult with Factory		_				iore powe	er piease c	onsult wit	in Factory							
2. Series operation     Consult with Factory     3. Daisy chain     Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.	· · · · · · · · · · · · · · · · · · ·	_			<i></i>	rted in Da	isy chain t	n synchro	nize their	turn-on	and turn-o	off				
3. Daisy chain		_											the front	panel.		
5. Output resistance control Emulates series resistance Resistance range: 1–1000mQ. Programming via the communication ports or the front panel.		-													iel.	
Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the	· ·		Programm	nable Out	put rise an	d Output	fall slew r									the
communication ports or the front panel.									A 17 17		, .					
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 par			Profiles of	up to 100	steps can	pe stored	ın 4 men	ory cells.	Activatio	n by comr	nand via t	ne comm	unication	ports or b	y tne fron	τ panel.
PROGRAMMING AND READBACK (USB, LAN, V 10 20 30 40 50 60 80 100 150 200 300 400 500 60 80 100 100 100 100 100 100 100 100 100	PROGRAMMING AND READBACK (USB, LAN,	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
R5232/485, Optional IEEE (*19)(*20) Interfaces)	·								,,,		1					
1.Vout programming accuracy (*16)      0.05% of rated output voltage       2.lout programming accuracy (*15)      0.3% of rated output current		_				-										
3.Vout programming resolution 0.002% of rated output college		_				ne										
4. Jourt programming resolution 0.002% of rated output current		_														
5.Vout readback accuracy 0.05% of rated output voltage		_														
6.lout readback accuracy (*15) 0.2% of rated output current																
		_				_	_	_		_	_	_			_	0.002%
8.lout readback resolution (of rated output current)    %   0.012%   0.003%   0.003%   0.003%   0.004%   0.005%   0.005%   0.006%   0.008%   0.012%   0.003%   0.00	8.lout readback resolution (of rated output current))	%	0.012%	0.003%	0.003%	0.004%	0.004%	0.005%	0.006%	0.008%	0.012%	0.002%	0.003%	0.003%	0.003%	0.005%

# GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10 20	3	0	40	50	6	50	80	1	100	150	)	200	3	00	400		500	600
1.Foldback protection			Output shut-d User presetabl																		
2.Over-voltage protection (OVP)			Output shut-de	wn. Rese	et by A	C input	recycle in	autos	start n	node, by	OUT	PUT bu	utton,	by rea	ar pane	lorb	y comr	nunica	ition.		
3.Over -voltage programming ran		V	0.5~12 1~2				5~55.125	5 5~6	6.15	5~88.2	2 5~1	10.25	5~165	.37 5	~220.5	5~3	30.75	5~441	5~5	551.25	5~661.5
4. Over-voltage programming acc			+/-1% of rated																		
5.Output under voltage limit (UVL	_)		Prevents from							n analog	prog	rammi	ing. Pr	reset l	by front	t pane	or co	mmun	icatio	n port.	
6.Over temperature protection	1)		Shuts down th					tart m	iode.												
7. Output under voltage limit (UVI	L)		Prevents adjus																		
8. Output under voltage protection	on (UVP)		Prevents adjus mode, by Powe											ondit	ion. Re	set by	AC inp	out rec	ycle ir	1 autost	tart
FRONT PANEL																					
1.Control functions			Multiple optio	ns with 2	Encod	lers															
			Vout/Iout/Pow			ıl adjust															
			OVP/UVL/UVP																		
			Protection Fun																		
			Communication				of LAN,IEI	EE,RS2	232,R	5485,USE	B or O	ptiona	al com	muni	cation i	interf	ace.				
			Output ON/OF																		
			Communication																		
			Analog Contro										K/10K	prog	rammii	ng					
2.Display			Analog Monito Vout: 4 digits, a								1g 5V/	IUV.									
Z.Dispiay			lout: 4 digits, a																		
3.Front Panel Buttons Indications			OUTPUT ON, A								ON CC	NEIGI	ΙΡΔΤΙ	ON S	/STEM	SEOI	IENICES				
3.FIGHT Faller Buttons indications																					
4. Front Panel Display Indications			Voltage, Curre (communication	n), RS/US	B/LAN	V/IEEE co	mmunica	ation,	Trigge	r, Load/	/Store	Cell.	, LFP, <i>F</i>	Autos	tart, Sa	retsta	rt, Fold	зраск у	//I, Ke	mote	
ENVIRONMENTAL CONDITIONS																					
1.Operating temperature			0~50°C, 100%	oad.																	
2.Storage temperature			-30~85°C																		
3.Operating humidity		%	20~90% RH (ne	conden	sation	).															
4.Storage humidity		%	10~95% RH (no			, -															
5.Altitude (*17)			Operating: 100				irrent dera	ating 2	2%/10	0m or Ta	a dera	ntina 1°	°C/100	m ab	ove 200	00m l	Von or	erating	a· 400	00ft (12	(000m)
			operating, roo	0011 (500	0111,,, 0	atput co	c.iic dere		270710	0111 01 10		9 .	2, 100	,,,,,	010 200		1011101	Cracing	j. 100		
MECHANICAL 1.Cooling			Forced air cool	ing by int	ornal	fanc Air	flow direc	ction	from	Eront na	nol to	nowo	or cump	alvro							
	CCD 10LW				emai	Ialis. All	now unec	Ction.	HOIII	гтопт ра	arrer to	powe	:i supp	Jiy iea	21						
2.Weight 3.Dimensions (WxHxD)	GSP 10kW GSP 10kW	kg mm	Less than 15.5k W: 423, H: 88,	D: 441.5 (\	Vithou	ıt busbar	rs and bush	bars co	over),			0.00.6				,					
			W: 423, H: 88,		cludin	g busbar	s and bush	bars co	over, a	nd strain	n relie	f) (Refe	r to Ou	utline	drawin	g).					
2.Weight	GSP 15kW	kg	Less than 23.5 W: 423, H: 132	-	F (\A/:	41		ما در ما اد													
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H: 132	5, D:640	(Inclu	ıding bu	sbars and	l busb	ars co	ver, and	_	relief)	(Refe	r to O	utline o	drawi	ng).				
4.Vibration			MIL-810G, met					_	Annex	C - 2.1.3	3.1										
5.Shock			Less than 20G,	half sine,	11mS	ec. Unit i	is unpacke	ed.													
SAFETY/EMC			,																		
1.Applicable standards:	Safety		UL61010-1, CSA	22.2 No.	L61010	)-1, IECL	61010-1, El	NL610	010-1.												
1.1. Interface classification			Vout≤50V Mod 60≤Vout≤600\	els: Outp Models:	ut, J1, Outpi	J2, J3, J4 ut & J8 (s	l, J5, J6, J7, ense) are l	, J8 (se hazar	ense) a	& J9 (con J1, J2, J3	mmur 3, J4, J	nication 5, J6, J7	n optio 7 & J9	ons) a (comi	re Non munica	Haza ition o	rdous.	s) are N	lon Ha	zardou	ıs.
1.2 Withstand voltage			Vout≤50V Mo Input - Groun 60V≤Vout≤10 Output & J8 (s Output & J8 (s 100V <vout≤6 &="" (s="" -="" groun<="" input="" j8="" output="" td=""><td>dels: Inp d: 2835V DV Mode ense) - ( ense) - ( 00V Modense) - ( ense) - (</td><td>ut – C DC 1r Is: Inp J1, J2 Groun els: Ir J1, J2 Groun</td><td>Output &amp; min. out – Ou , J3, J4, ld: 1500 lput – O , J3, J4, ld: 2500</td><td>J8 (sens Itput &amp; J8 J5, J6, J VDC 1mi Iutput &amp; Ji J5, J6, J</td><td>se), J1 3 (sen: 17 &amp; J: in, Inp 18 (ser 17 &amp; J:</td><td>, J2, d se), J 9 (cor out - G</td><td>J3, J4, J 1, J2, J3 mmunic around: J1, J2, J</td><td>J5, J6 3, J4, ation 2835 J3, J4</td><td>3, J7 &amp; J5, J6 optior VDC 1</td><td>39 (c 6, J7 8 ns): 85 1min.</td><td>omm &amp; J9 ( 50VD</td><td>unicati commi C 1mir</td><td>ion op unica n.</td><td>otions)</td><td>: 4242 ptions)</td><td>2VDC ): 424</td><td>1min, 2VDC 1</td><td>1min,</td></vout≤6>	dels: Inp d: 2835V DV Mode ense) - ( ense) - ( 00V Modense) - ( ense) - (	ut – C DC 1r Is: Inp J1, J2 Groun els: Ir J1, J2 Groun	Output & min. out – Ou , J3, J4, ld: 1500 lput – O , J3, J4, ld: 2500	J8 (sens Itput & J8 J5, J6, J VDC 1mi Iutput & Ji J5, J6, J	se), J1 3 (sen: 17 & J: in, Inp 18 (ser 17 & J:	, J2, d se), J 9 (cor out - G	J3, J4, J 1, J2, J3 mmunic around: J1, J2, J	J5, J6 3, J4, ation 2835 J3, J4	3, J7 & J5, J6 optior VDC 1	39 (c 6, J7 8 ns): 85 1min.	omm & J9 ( 50VD	unicati commi C 1mir	ion op unica n.	otions)	: 4242 ptions)	2VDC ): 424	1min, 2VDC 1	1min,
1.3 Insulation resistance			GSP10kW/15kV	/: 60 Moh	m at 2	25°C, 709	%RH. Outp	put to	Grou	nd 500\	VDC							-			
2.Conducted emmision			IEC/EN61204-3									, VCCI-	Α.								
3.Radiated emission			IEC/EN61204-3				· · · · ·					,		CI-A.							
4. EMC compliance	EMC(*18)		IEC/EN61204-3										, •	/							
Livic compliance	LITIC( 10)		1LC/LINU1204-3	muustile	ii CIIVI	ommen															

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.

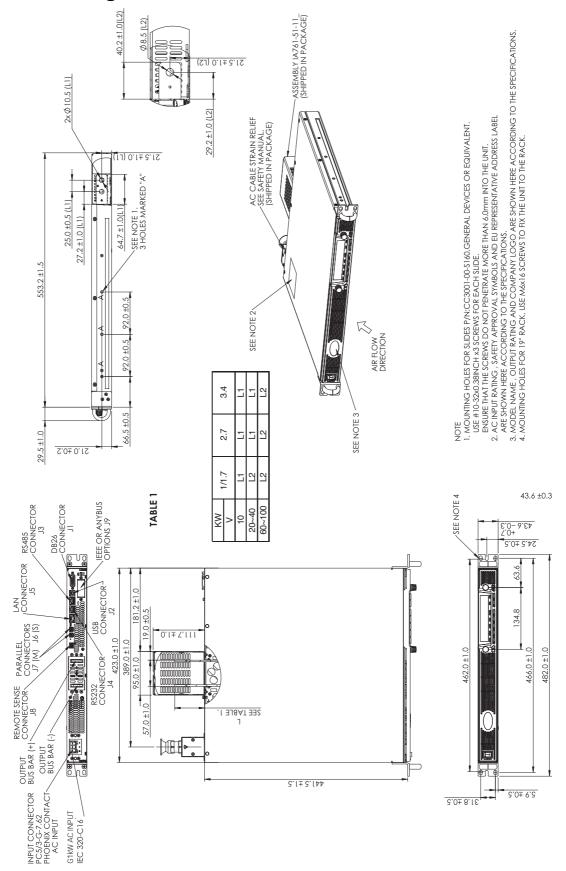
  \*19:Max. ambient temperature for using IEEE is 40°C.

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

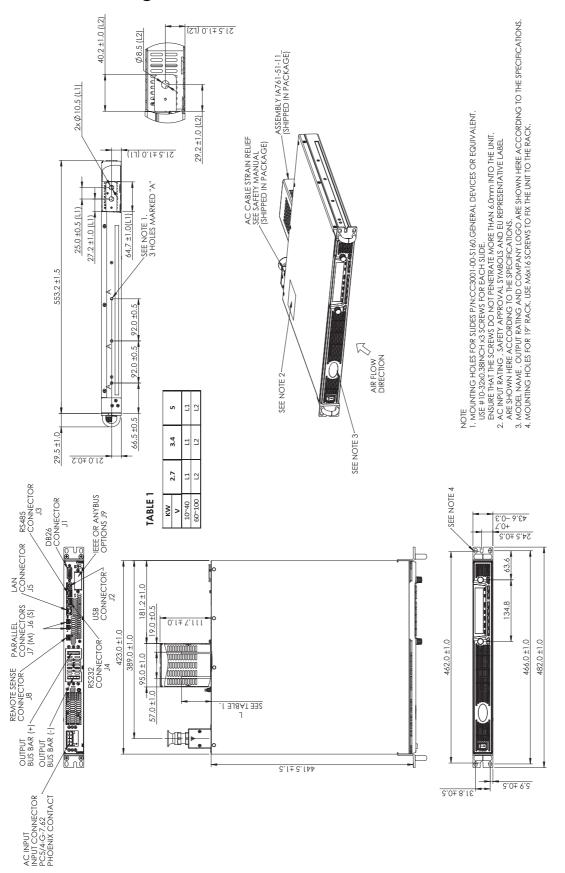
  \*21: For 10V model only: For 3-Phase 200V efficiency is 88.5%

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

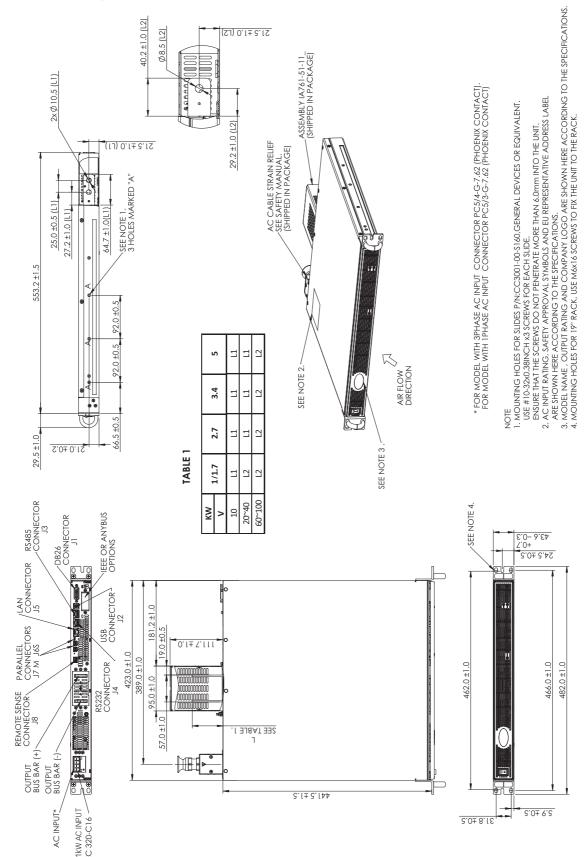
# Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



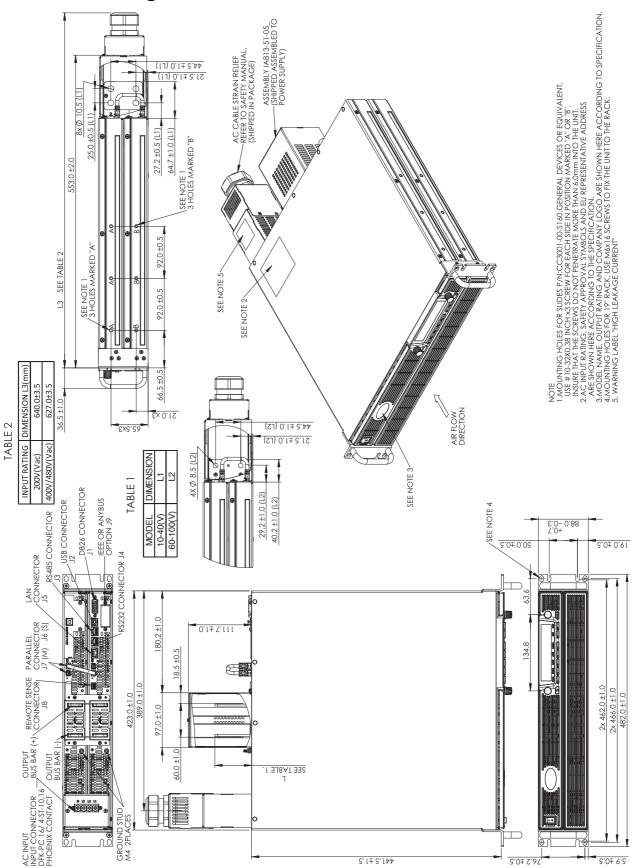
# Outline Drawing **GENESYS™** G2.7kW/G3.4kW/G5kW - 3-Phase



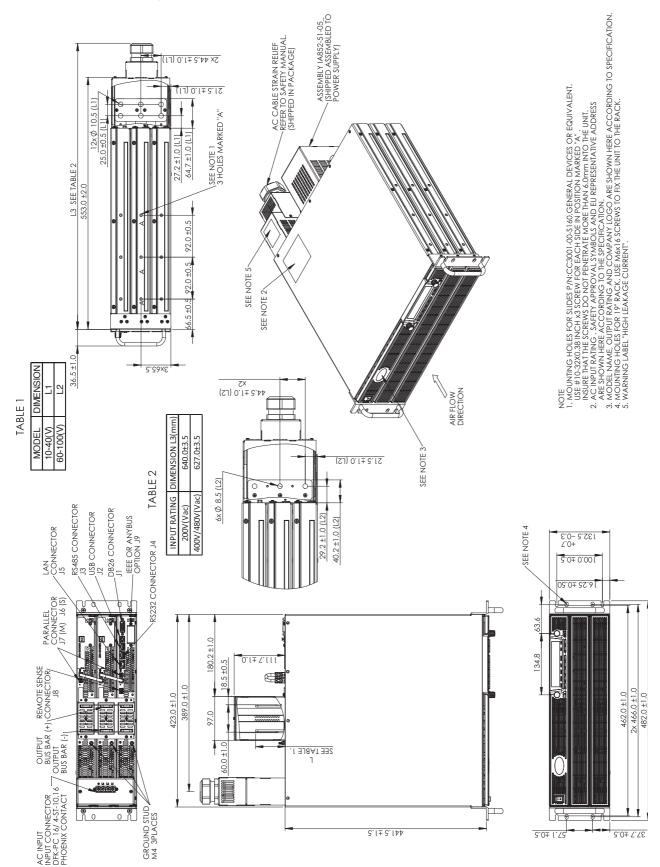
# Outline Drawing GENESYS<sup>™</sup> GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



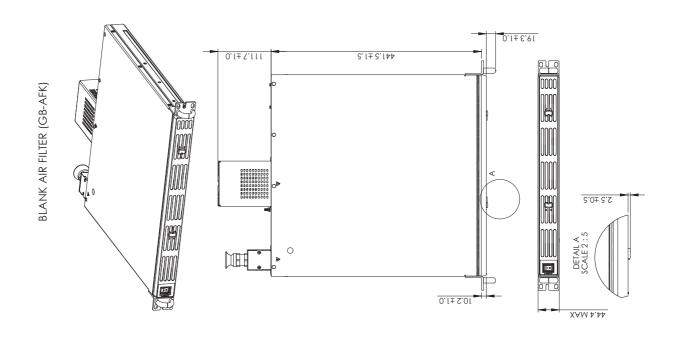
# Outline Drawing **GENESYS™** GSP10kW

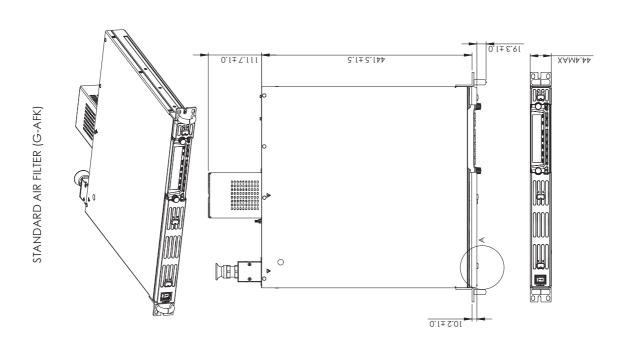


# Outline Drawing GENESYS™ GSP15kW



# Outline Drawing **GENESYS™** Air Filter Kit



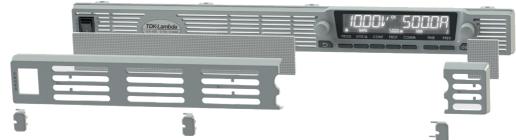


# Front Panel Air Filter Assembly

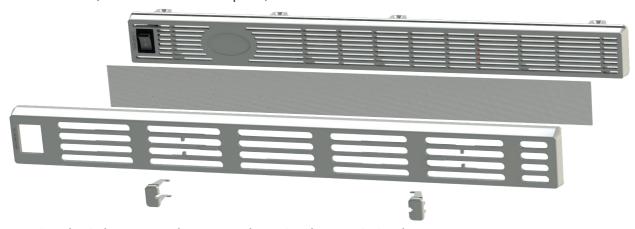
Front panel dust cover is available for dusty air environment applications

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

Part Number (for standard unit): G-AFK



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



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

#### **Accessories**

1. Front Panel dust filter / Field installation kit:

#### Technical Specifications: Unit with Air Filter Assembly Installed

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

### **Filter Foam Technical Specifications**

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

## **Air Filter Assembly Components**

Standard Unit (P/N: G-AFK)

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

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

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



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