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DC Programmable Power Supplies

GENESYS+™

EMEA Edition | 2024

TDK-Lambda

GENESYS+™

The next generation has arrived.
And it's small and mighty.

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

+High functionality

+Versatile
communication
protocols

+Smallest and
lightest product
on the market

+Simplifies
control

+Speeds up test times

+Highest power
density on the market



Features

General

- 1U benchtop and 19 Inch standard rack package
- Constant voltage/constant current operation modes/constant power (CP) limit
- Internal resistance simulation

Control interfaces

- High resolution 16 bit ADCs & DACs
- LAN (**LXI** 1.5), USB, RS-232/RS-485 built-in as standard
- Isolated analogue interface built-in as standard
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) interfaces
- Communications compatible with Z+ and Genesys™

Programming

- Arbitrary waveform generator with auto-triggering (store up to 100 steps into four internal memory cells)
- Slew-rate control (V/I)
- Two user programmable output control pins (open drain) to activate external devices
- Easy auto-configuration for parallel systems up to 90kW
- Safe or auto re-start and last settings memory
- Certified LabWindows TM/CVI, LabView TM and IVI drivers

Environmental

- Fan speed profile controlled by ambient temperature and load

Mechanical

- High contrast, wide viewing angle LCD display with brightness and dimming control
- Blank front panel option
- Front panel dust filter option
- Rackmount-kit for half-rack models option

Specifications

- 1kW, 1.5kW models in 1U, half 19" rack-mount
- 1, 1.7, 2.7, 3.4, 5, 7.5kW models in 1U
- 10kW/15kW in 2U, 15kW/22.5kW in 3U
- Wide Range of popular worldwide AC inputs:
GH1kW/1.5kW: 1Ø (85~265Vac)
G1kW/1.7kW: 1Ø (85~265Vac)
G2.7/3.4kW: 1Ø (170~265Vac), 3Ø (208 & 400Vac)
G5kW - G15kW: 3Ø (208, 400 & 480Vac),
G7.5kW - G22.5kW: 3Ø (208 & 480Vac)
Wide range 3Ø 480Vac (342~528Vac)
- Output voltage up to 1500V, current up to 1500A
- 1.7kW, 3.4kW, 5kW - fast-speed Models
- 1.7kW, 3.4kW - with power sink option (PSINK)
- 5 year warranty

Applications

- Test & measurement systems, component device testing, manufacturing and process control
- Semiconductor processing & burn-in, aerospace & satellite testing, medical imaging, green technology
- ATE, automotive, automation, laser diodes, battery simulation
- Higher power systems can be configured with up to twelve (12) 5kW units up to 60kW or with up to twelve (12) 7.5kW up to 90kW. 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



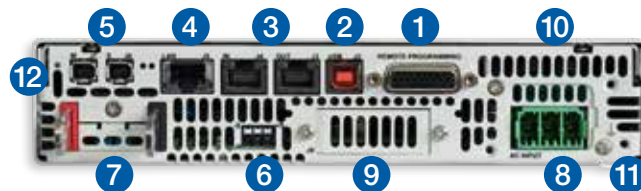
GENESYS+™ Panel Description

Front Panel GENESYS+™ GH (1-1.5kW)



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

Rear Panel GENESYS+™ GH (1-1.5kW)



1. Isolated analogue 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 (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 senseconnections (spring cage)
7. Output connections: Rugged busbars (shown) for models up to and including 100V output;
Output connector: Phoenix Contact GIC 2.5/4-G-7.62 for models with outputs >100V
Plug connector: Phoenix Contact GIC 2.5/4-ST-7.62 for models with outputs >100V
8. GH1.5kW input: 85~265Vac, single phase, 50/60Hz
AC input connector: Phoenix Contact Power Combicon PC 5/3-G-7.62
AC input plug connector: Phoenix Contact Power Combicon PC 5/3-STCL1-7.62 series with strain relief (model shown)
GH1kW 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 (M3x8mm screw)
12. Reset button. Set default power supply settings

Front Panel GENESYS+™ G (1-7.5kW)



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

Rear Panel GENESYS+™ G (1-5kW)



1. Isolated analogue 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 (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 up to 600V
 8. G2.7kW / G3.4kW / G5kW AC input: 208, 400 & 480Vac, three phase, 50/60Hz (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, 50/60Hz
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
- G+ 5kW 1000V and 1.500V has the same housing as 7.5kW

Rear Panel Description GENESYS+™ G (7.5kW)



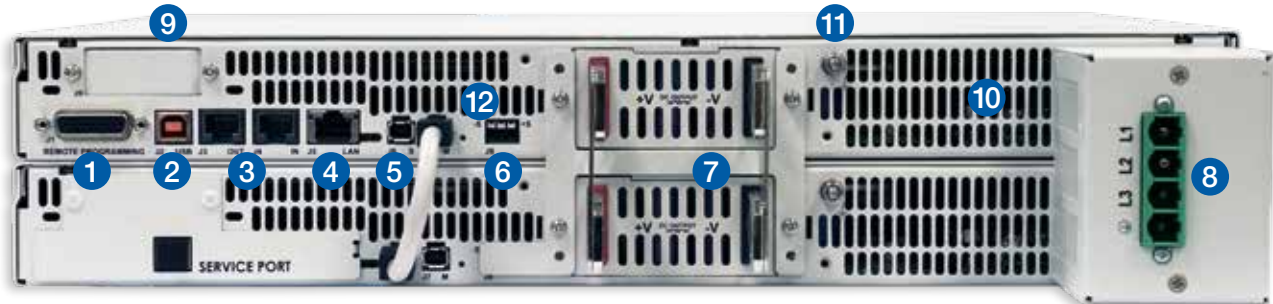
1. Isolated analogue programming, monitoring and other control connector (DB26 female)
2. USB interface connector (Type B)
3. RS-232/RS-485 IN/OUT remote digital interface (RJ-45 type) for multi-drop connection
4. LAN (1.5) interface connector (RJ-45 type with LAN status indicators)
5. Auto paralleling bus connectors (mini I/O type) for connecting master unit-to-slave and slave unit-to-slave unit
6. Remote/local output voltage sense connections
Plug connector: Phoenix Contact - GIC 2,5 HCV/ 3-ST-7,62 - 1745632
7. Output connections: Rugged busbars (shown) for models up to and including 1500V Output;
8. G7.5kW: AC Input: 480Vac, Three phase, 50/60 Hz. (Model shown)
AC input plug connector: Phoenix Contact Power Combicon PC 5/4-STCL1-7.62 series with strain relief
AC Input: 208Vac, Three phase, 50/60 Hz
AC input plug connector: Phoenix Contact DFK-IPC 16/4-STF-10.16 with strain relief
9. Optional interface position for IEEE 488.2 SCPI or anybus interface
10. Exhaust air assures reliable operation when units are zero stacked
11. Functional ground connection (M4x8mm stud)
12. Reset button. Set default power supply settings

Front Panel GENESYS+™ GSP (10kW) / GSPL (15kW)



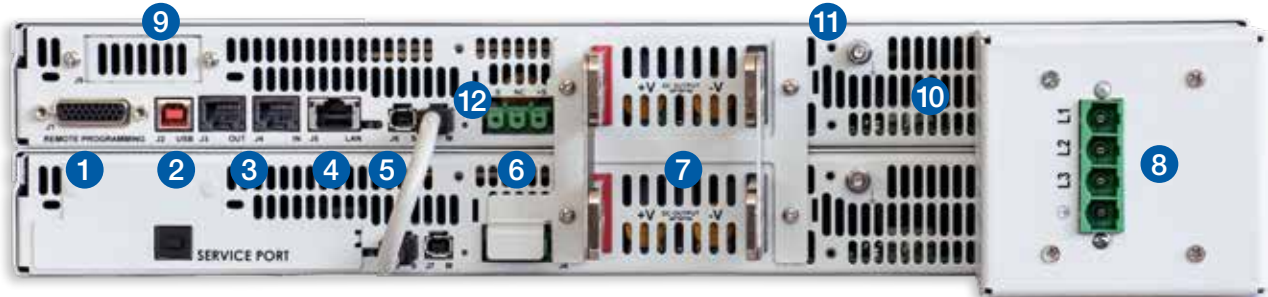
1. Input Power ON/OFF switch
2. Air intake allows zero stacking for maximum system flexibility and power density
3. Reliable detent encoders for settings and menu navigation
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5. Function/Status LEDs: Active modes and function indicators
6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ GSP (10kW)



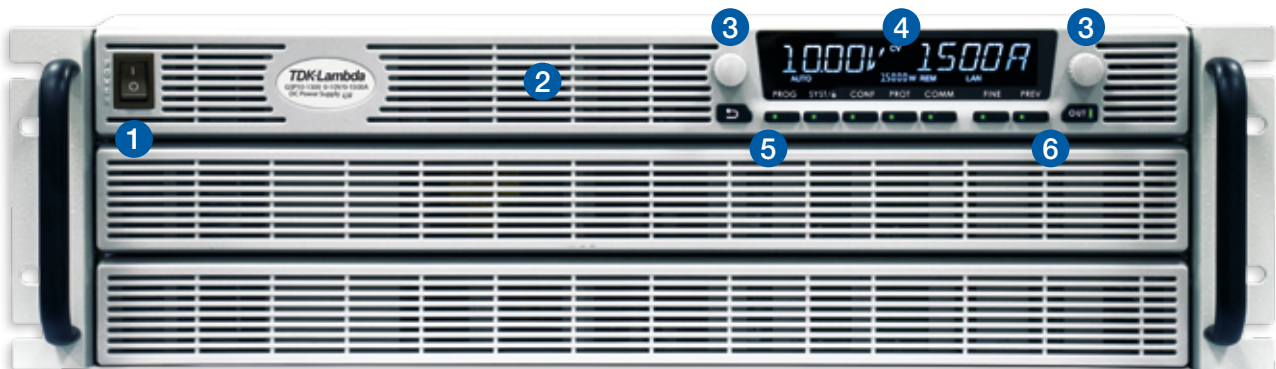
1. Isolated analogue programming, monitoring and other control connector (DB26 female)
2. USB interface connector (Type B)
3. RS-232/RS-485 IN/OUT remote digital interface (RJ-45 type) for multi-drop connection
4. LAN (LAN 1.5) interface connector (RJ-45 type with LAN status indicators)
5. Auto paralleling 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: 208, 400 & 480Vac three phase, 50/60Hz
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

Rear Panel GENESYS+™ GSPL (15kW)



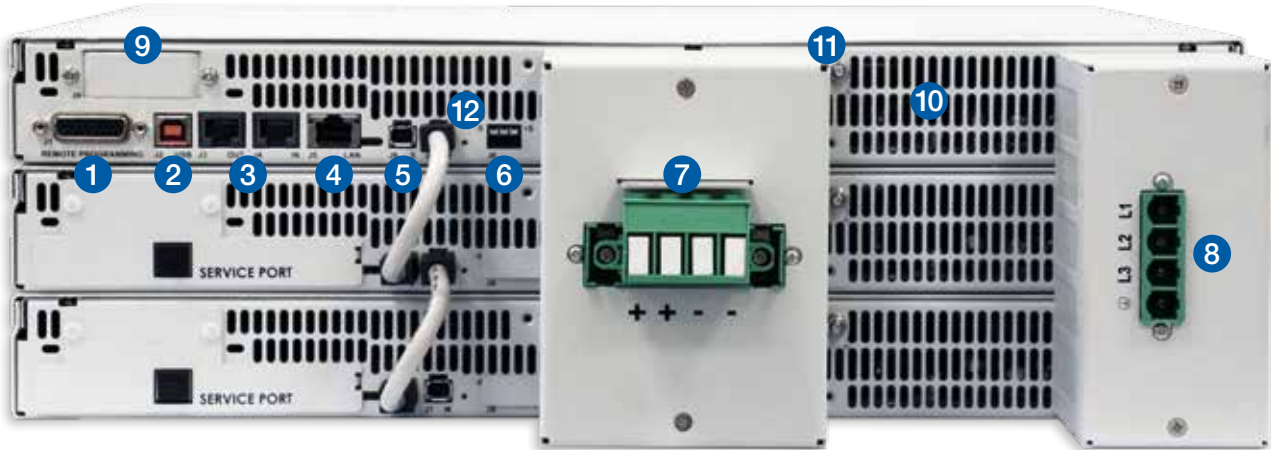
1. Isolated analogue programming, monitoring and other control connector (DB26 female)
2. USB interface connector (Type B)
3. RS-232/RS-485 IN/OUT remote digital interface (RJ-45 type) for multi-drop connection
4. LAN (1.5) interface connector (RJ-45 type with LAN status indicators)
5. Auto paralleling 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 (Phoenix Contact GIC 2,5 HCV/3-ST-7,62)
7. Output connections: Rugged busbars (shown) for models up to and including 1500V output;
8. Input connector: 208Vac, 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

Front Panel GENESYS+™ GSP (15kW) / GSPL (22.5kW)



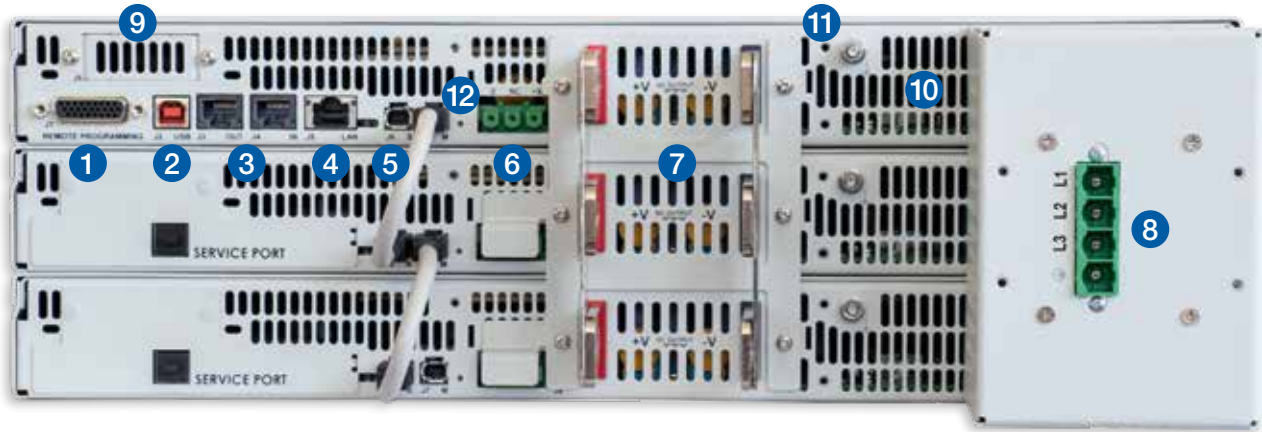
1. Input Power ON/OFF switch
2. Air Intake allows zero stacking for maximum system flexibility and power density
3. Reliable detent encoders for settings and menu navigation
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5. Function/status LEDs: Active modes and function indicators
6. Pushbuttons allow flexible user configuration

Rear Panel GENESYS+™ GSP (15kW)



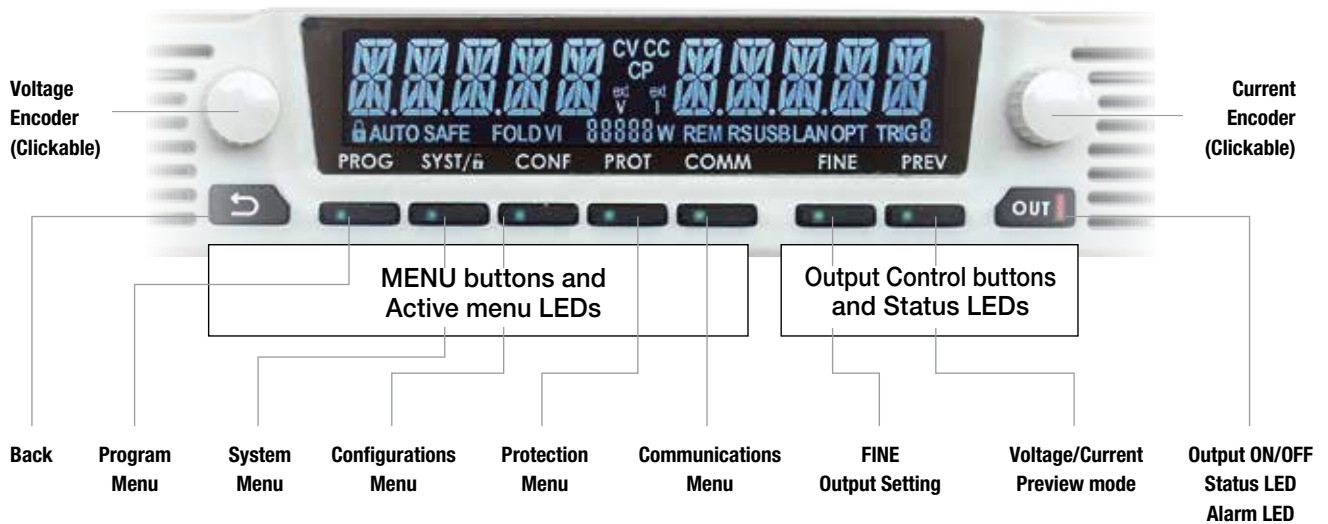
1. Isolated analogue programming, monitoring and other control connector (DB26 female)
2. USB interface connector (Type B)
3. RS-232/RS-485 IN/OUT remote digital interface (RJ-45 type) for multi-drop connection
4. LAN (1.5) interface connector (RJ-45 type with LAN status indicators)
5. Auto paralleling 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 up to 600V (shown)
8. Input: 208, 400 & 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

Rear Panel GENESYS+™ GSPL (22.5kW)

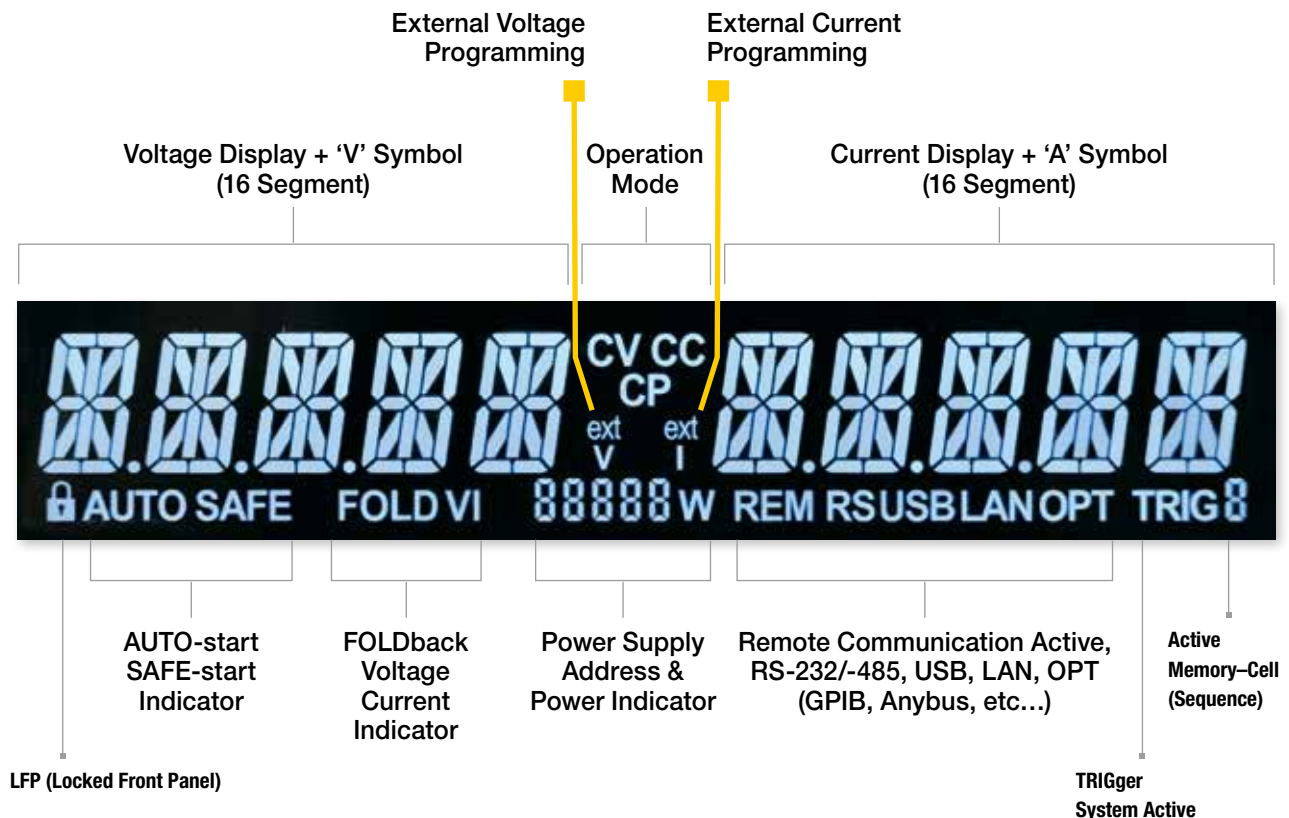


1. Isolated analogue programming, monitoring and other control connector (DB26 female)
2. USB interface connector (Type B)
3. RS-232/RS-485 IN/OUT remote digital interface (RJ-45 type) for multi-drop connection
4. LAN (~~LXI~~ 1.5) interface connector (RJ-45 type with LAN status indicators)
5. Auto paralleling 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 (Phoenix Contact GIC 2,5 HCV/3-ST-7,62)
7. Output connections: Rugged busbars for models up to and including 1500V output;
8. Input: 208Vac, 480Vac three phase, 50/60 Hz
AC input plug connector: 3-Phase 208: PC 35 HC/ 4-GF-15,00 Phoenix Contact
3-Phase 480: DFK-PC 16/ 4-STF-10, 16 Phoenix Contact
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+™ GHB 1-1.5kW Series Blank Front Panel

A blank front panel is available for applications where the front panel display and controls are not required and only remote interface (digital/analogue) 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 analogue interface.



GENESYS+™ GH Parallel and Series Configurations

Parallel Operation – Master/Slave

- Auto paralleling scalable master-slave operation
- Active current sharing allows up to four identical units to be connected
- Total real current is programmed, measured and reported by the master
- Up to four supplies operate as one



Standard unit - zero stacked up to 4 units

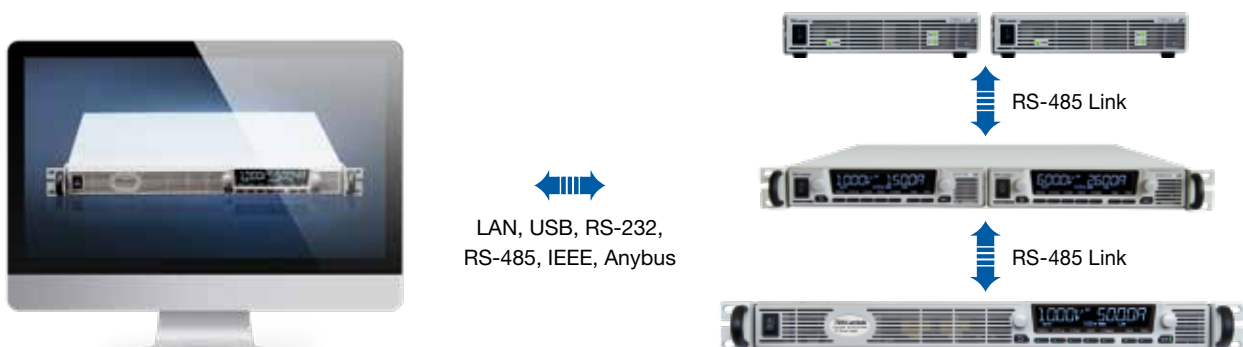
Series Operation

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

Multi-Drop Remote Programming via Communication Interface

Standard built-in LAN, USB, RS-232 & RS-485 allows “multi-drop” daisy-chain control of up to 31 power supplies on the same communication bus. Can be daisy chained via built-in RS-485 interface.

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



GENESYS+™ G&GSP Series Blank Front Panel

A Blank front panel is available for applications where the front panel display and controls are not required and only remote interface (digital/analogue) 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 analogue interface.



GENESYS+™ Parallel and Series Configurations

Parallel Operation – Master/Slave

- Auto paralleling scalable master-slave operation
- Active current sharing allows up to twelve (12) identical units to be connected
- Total real current is programmed, measured and reported by the master
- Up to twelve (12) supplies operate as one



Standard unit - zero stacked up to 12 units



Standard & blank - zero stacked up to 12 units

Scalable Power Systems

Factory assembly and test available for two and three unit systems 10kW/15kW.

Parallel kit available for six unit systems 30kW. Order P/N: G/P - 6U



GSP 10kW in 2U



GSP 15kW in 3U

Series Operation

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

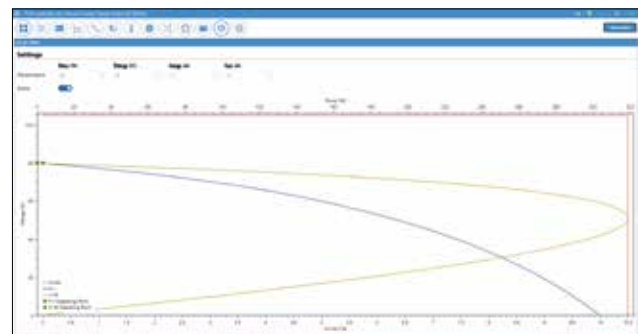
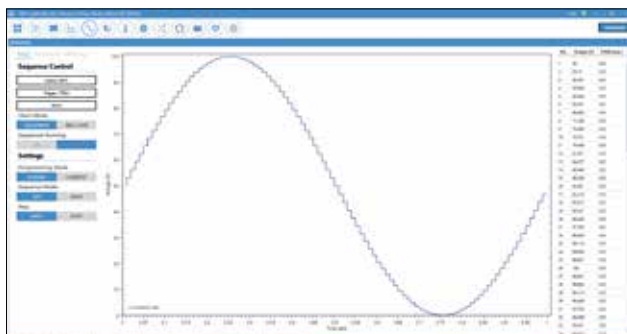
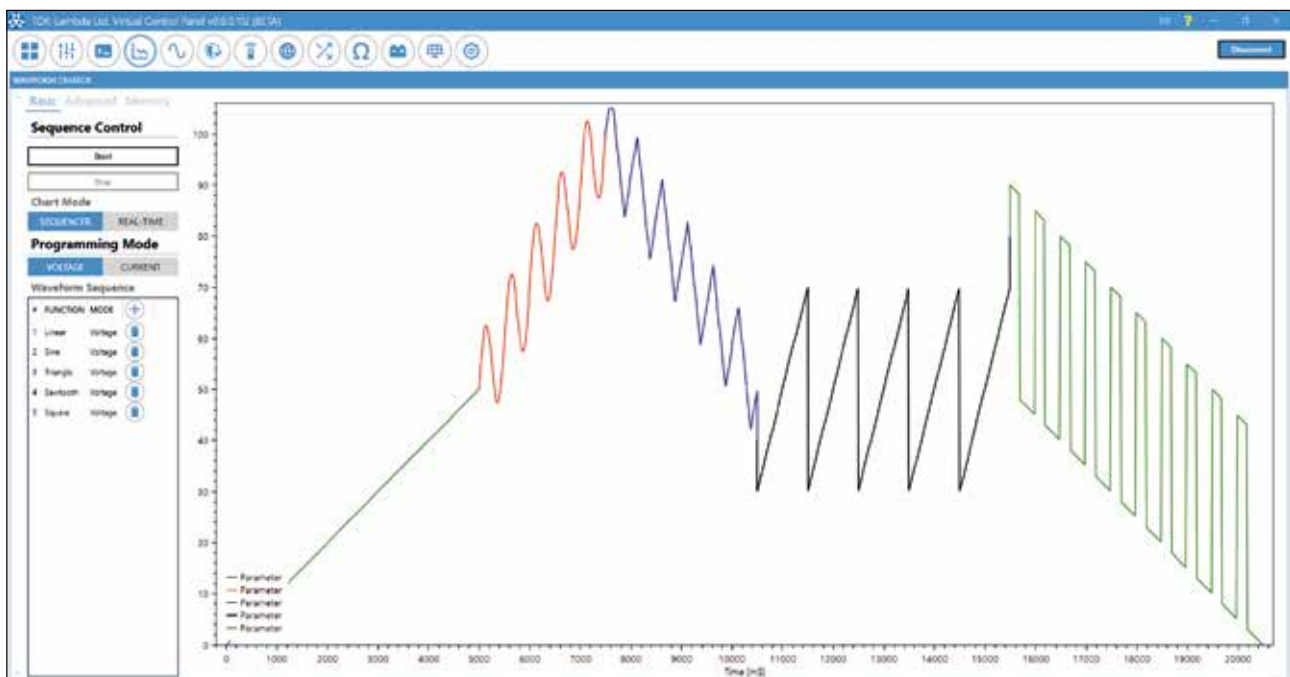
User Interface

Graphical User Interface

Advanced “Virtual Front Panel” allows programming and monitoring units with or without front panel display.

- Control and monitor DC programmable power supply series (GENESYS+, GENESYS and Z+)
- Automatically detect power supplies connected to a PC and/or local network
- Advanced terminal, including modbus-TCP and EtherCAT communication interfaces
- Real-time graph and waveform creator, including pre-built functions i.e. sine, triangle and square
- Solar array simulation based on VOC, VMP, IMP, ISC
- Advanced functions control – slew-rate, internal resistance and constant power
- Multi-model monitoring and control panel
- Individual and global commands control

GUI Waveform Profile Generator



Air Filter Kit

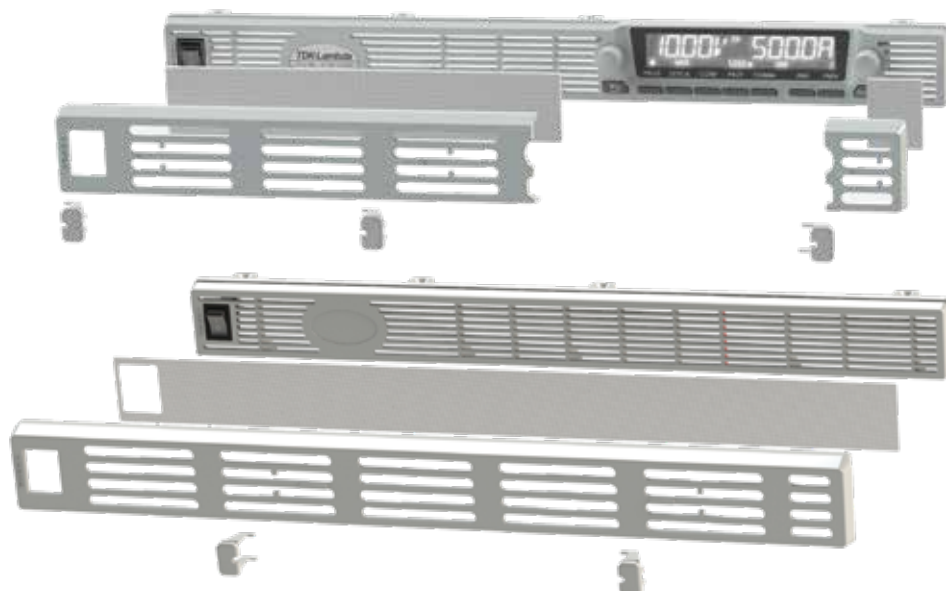
GENESYS+™ Front Panel Air Filter Assembly

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

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)

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)

Filter Foam Technical Specifications

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

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

- Air filter cover (one piece)
- Slide button #1 (two locations)
- Filter foam (one piece)

Product Summary

GENESYS+™ Family Output Voltage and Current

Model	G (Std Front Panel Display) / GB (Blank Front Panel Display)						GSP / GBSP (Scalable Power)			
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW / 2U	15kW / 3U	15kW / 2U	22.5kW / 3U
Voltage Range [V]	Current Range [A]									
0~10	0~100	0~170	0~265	0~340	0~500	-	0~1000	0~1500	-	-
0~20	0~50	0~85	0~135	0~170	0~250	0~375	0~500	0~750	0~750	0~1125
0~30	0~34	0~56	0~90	0~112	0~170	0~250	0~340	0~510	0~500	0~750
0~40	0~25	0~42	0~68	0~85	0~125	0~188	0~250	0~375	0~376	0~564
0~50	-	-	-	-	0~100	-	0~200	0~300	-	-
0~60	0~17	0~28	0~45	0~56	0~85	0~125	0~170	0~255	0~250	0~375
0~80	0~12.5	0~21	0~34	0~42	0~65	0~94	0~130	0~195	0~188	0~282
0~100	0~10	0~17	0~27	0~34	0~50	0~75	0~100	0~150	0~150	0~225
0~150	0~7	0~11.2	0~18	0~22.5	0~34	0~50	0~68	0~102	0~100	0~150
0~200	-	-	-	-	0~25	0~37.5	0~50	0~75	0~75	0~112.5
0~300	0~3.5	0~5.6	0~9	0~11.5	0~17	0~25	0~34	0~51	0~50	0~75
0~400	-	-	-	-	0~13	-	0~26	0~39	-	-
0~500	-	-	-	-	0~10	-	0~20	0~30	-	-
0~600	0~1.7	0~2.8	0~4.5	0~5.6	0~8.5	0~12.5	0~17	0~25.5	0~25	0~37.5
0~1000	-	-	-	-	0~5*	0~7.5	-	-	0~15	0~22.5
0~1500	-	-	-	-	0~3.4*	0~5	-	-	0~10	0~15
Weight [kg/lb]	5/11	5/11	6.25/14.3	6.25/14.3	8.5/18.7*	8.5/18.8	15.5/34.2	23.5/51.8	18/39.7	25/55.1

* 5kW - HV: Input 3P208 (Three phase 170~265Vac) and 3P480 (Three phase 342~528Vac)

AC Input Range

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

3P208 (Three phase 170~265Vac), 3P400 (Three phase 342~460Vac), 3P480 (Three phase 342~528Vac)

Models GENESYS+™ GH (1/1.5kW)

Models 1kW

Model	Voltage [V]	Current [A]	Power [W]
GH10-100	0~10	0~100	1000
GH20-50	0~20	0~50	1000
GH30-34	0~30	0~34	1020
GH40-25	0~40	0~25	1000
GH60-17	0~60	0~17	1020
GH80-12.5	0~80	0~12.5	1000
GH100-10	0~100	0~10	1000
GH150-7	0~150	0~7	1050
GH300-3.5	0~300	0~3.5	1050
GH600-1.7	0~600	0~1.7	1020
Weight [kg/lb]	3.5/7.7		

Models 1.5kW

Model	Voltage [V]	Current [A]	Power [W]
GH10-150	0~10	0~150	1500
GH20-75	0~20	0~75	1500
GH30-50	0~30	0~50	1500
GH40-38	0~40	0~38	1520
GH60-25	0~60	0~25	1500
GH80-19	0~80	0~19	1520
GH100-15	0~100	0~15	1500
GH150-10	0~150	0~10	1500
GH300-5	0~300	0~5	1500
GH600-2.6	0~600	0~2.6	1560
Weight [kg/lb]	3.5/7.7		

Product Code

GH		-	10	-	150	-		-		-	
Series Name			Output Voltage (0~10V)		Output Current (0~150A)		Interface Options		AC Cable Options (only for 1kW)		Accessories Options

Front Panel Type	P/N:
Standard	-
Blank front panel	B

AC inputs (all models):
Single phase: 85~265Vac

Interface Options (Factory installed)

LAN **LYA** 1.5 compliant with multi-drop capability
USB 2.0 compliant with multi-drop capability
RS-232/RS-485
Isolated analogue program/monitor interface
(5V/10V Pgm/Mon with 1500V isolation)

Interface Options (Optional)

IEEE (488.2 & SCPI compliant with multi-drop capability installed)
Modbus-TCP
EtherCat

Accessories

Rack mounting applications

The rack mounted kit allows the units to be zero stacking for maximum system flexibility and power density without increasing the 1U height of the units. To install one GH1-1.5kW unit or two units side-by-side in a standard 19" rack in 1U(1.75") height, use option kit

Single unit installation

Single GH1kW/1.5kW power supply in a standard 19" rack in 1U(1.75") height

Dual unit installation

Two GH1kW/1.5kW power supplies side-by-side in a standard 19" rack in 1U (1.75") height

Benchtop applications multi output

The benchtop stacking kit allows the units to be zero stacked for maximum system flexibility and power density without increasing the 1U height of the units.

To install a GH1kW/1.5kW two units one on top of the other use option kit

P/N:

- Europe
- North America
- Japan
- China
- Middle East

P/N:

- IEEE
- MDBS
- ECAT

AC Cable Options *1kW only*

- Europe
- North America
- Japan
- China
- Middle East

Accessories Options

- Printed user manual
(User manual & GUI on website)
- Bus paralleling cable

P/N:

- E
- U
- J
- C
- I

P/N:

- M
- P

P/N:

GH/RM



GH/MO



GH/MO-2U

Models GENESYS+™ G (1/1.7kW)

Models 1kW

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

Models 1.7kW

Model	Voltage [V]	Current [A]	Power [W]
G10-170	0~10	0~170	1700
G20-85	0~20	0~85	1700
G30-56	0~30	0~56	1680
G40-42	0~40	0~42	1680
G60-28	0~60	0~28	1680
G80-21	0~80	0~21	1680
G100-17	0~100	0~17	1700
G150-11.2	0~150	0~11.2	1680
G300-5.6	0~300	0~5.6	1680
G600-2.8	0~600	0~2.8	1680

Product Code

G	-	10	-	170	-		-		-	
Series Name		Output Voltage (0~10V)		Output Current (0~170A)		Interface Options		AC Cable Options (only for 1kW)		Accessories Options
Front Panel Type P/N: Standard Blank front panel B										

AC inputs (all models):
Single phase: 85~265Vac

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

2. Serial link cable (included with the power supply) daisy-chain up to 31 GENESYS+™ power supplies.

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

3. Bus paralleling cable

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

4. User manual

Printed user manual	G/M
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Models GENESYS+™ G (2.7/3.4kW)

Models 2.7kW

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

Models 3.4kW

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

Product Code

G		-	10	-	340	-		-		-	
Series Name			Output Voltage (0~10V)		Output Current (0~340A)		Interface Options		AC Input Options		Accessories Options
Front Panel Type	P/N:		Interface Options (Factory installed)				P/N:	AC Input Options		P/N:	
Standard	-		LAN (LXI 1.5 compliant with multi-drop capability)				-	Single phase 170~265Vac		1P208	
Blank front panel	B		USB 2.0 compliant with multi-drop capability				-	Three phase 170~265Vac		3P208	
			RS-232/RS-485				-	Three phase 342~460Vac		3P400	
			Interface Options (Optional)				P/N:	Three phase 342~528Vac		3P480	
			IEEE (488.2 & SCPI compliant with multi-drop capability installed)				IEEE	Accessories Options		P/N:	
			Modbus-TCP				MDBS	Printed user manual		M	
			EtherCat				ECAT	(User manual & GUI on website)			
			Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)				IS420	Bus paralleling cable		P	

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

2. Serial link cable (included with the power supply) daisy-chain up to 31 GENESYS+™ power supplies.

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

3. Bus paralleling cable

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

4. User manual

Printed user manual	G/M
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Models GENESYS+™ G (5kW)

Model	Voltage [V]	Current [A]	Power [W]
G10-500	0~10	0~500	5000
G20-250	0~20	0~250	5000
G30-170	0~30	0~170	5100
G40-125	0~40	0~125	5000
G50-100	0~50	0~100	5000
G60-85	0~60	0~85	5100
G80-65	0~80	0~65	5200
G100-50	0~100	0~50	5000

Model	Voltage [V]	Current [A]	Power [W]
G150-34	0~150	0~34	5100
G200-25	0~200	0~25	5000
G300-17	0~300	0~17	5100
G400-13	0~400	0~13	5200
G500-10	0~500	0~10	5000
G600-8.5	0~600	0~8.5	5100
G1000-5*	0~1000	0~5	5000
G1500-3.4*	0~1500	0~3.4	5100

* 5kW - HV: Input 3P208 (Three phase 170~265Vac) and 3P480 (Three phase 342~528Vac)

Product Code

G		-	10	-	500	-		-		-	
Series Name			Output Voltage (0~10V)		Output Current (0~500A)		Interface Options		AC Input Options		Accessories Options
Front Panel Type Standard Blank front panel	P/N: - B	Interface Options (Factory installed)			P/N:	AC Input Options			P/N:		
		LAN (LV) 1.5 compliant with multi-drop capability)			-	Three phase 170~265Vac			3P208		
		USB 2.0 compliant with multi-drop capability			-	Three phase 342~460Vac			3P400		
		RS-232/RS-485			-	Three phase 342~528Vac			3P480		
		Interface Options (Optional)			P/N:	Accessories Options			P/N:		
IEEE (488.2 & SCPI compliant with multi-drop capability installed)			IEEE	Printed user manual (User manual & GUI on website)			M				
Modbus-TCP			MDBS	Bus paralleling cable			P				
EtherCat			ECAT								
Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)			IS420								

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

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 (TYC0)	Shielded L=11cm	G/P

4. User manual

Printed user manual	G/M
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5. Parallel kit: 20/30kW

BusBar parallel kit for 20kW operation (5kW models where Vout up to 100V)	G/P-4U
BusBar parallel kit for 30kW operation (5kW models where Vout up to 100V)	G/P-6U

Models GENESYS+™ G (7.5kW)

Model A

Model	Voltage [V]	Current [A]	Power [W]
G20-375	0~20	0~375	7500
G40-188	0~40	0~188	7520
G100-75	0~100	0~75	7500
G150-50	0~150	0~50	7500
G600-12.5	0~600	0~12.5	7500
G1500-5	0~1500	0~5	7500

Model B

Model	Voltage [V]	Current [A]	Power [W]
G30-250	0~30	0~250	7500
G60-125	0~60	0~125	7500
G80-94	0~80	0~94	7500
G200-37.5	0~200	0~37.5	7500
G300-25	0~300	0~25	7500
G1000-7.5	0~1000	0~7.5	7500

Product Code

G		-	20	-	375	-		-		-	
Series Name			Output Voltage (0~20V)		Output Current (0~375A)		Interface Options		AC Input Options		Accessories Options
Front Panel Type Standard Blank front panel	P/N:		Interface Options (Factory installed)				P/N:	AC Input Options		P/N:	
	-		LAN (LV) 1.5 compliant with multi-drop capability)				-	Three phase 170~265Vac		3P208	
			USB 2.0 compliant with multi-drop capability				-	Three phase 342~528Vac		3P480	
	B		RS-232/RS-485				-	Accessories Options		P/N:	
			Interface Options (Optional)				P/N:	Printed user manual		M	
			IEEE (488.2 & SCPI compliant with multi-drop capability installed)				IEEE	(User manual & GUI on website)			
			Modbus-TCP				MDBS	Bus paralleling cable		P	
			EtherCat				ECAT				
			Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)				IS420				

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

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 (TYC0)	Shielded L=11cm	G/P

4. User manual

Printed user manual	G/M
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5. Parallel kit: 30/45kW

BusBar parallel kit for 30kW operation	G/P-4U
BusBar parallel kit for 45kW operation	G/P-6U

Models GENESYS+™ GSP (10/15kW)

Models 10kW

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

Models 15kW

Model	Voltage [V]	Current [A]	Power [kW]
GSP10-1500	0~10	0~1500	15
GSP20-750	0~20	0~750	15
GSP30-510	0~30	0~510	15.3
GSP40-375	0~40	0~375	15
GSP50-300	0~50	0~300	15
GSP60-255	0~60	0~255	15.3
GSP80-195	0~80	0~195	15.6
GSP100-150	0~100	0~150	15
GSP150-102	0~150	0~102	15.3
GSP200-75	0~200	0~75	15
GSP300-51	0~300	0~51	15.3
GSP400-39	0~400	0~39	15.6
GSP500-30	0~500	0~30	15
GSP600-25.5	0~600	0~25.5	15.3

Product Code

Series Name	Output Voltage (0~10V)	Output Current (0~1500A)	Interface Options	AC Input Options	Accessories Options
G SP Front Panel Type P/N: Standard - Blank front panel B	10 Interface Options (Factory installed) LAN (LX) 1.5 compliant with multi-drop capability USB 2.0 compliant with multi-drop capability RS-232/RS-485 Interface Options (Optional) IEEE (488.2 & SCPI compliant with multi-drop capability installed) Modbus-TCP EtherCat Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)	1500 P/N: - Three phase 170~265Vac - Three phase 342~460Vac - Three phase 342~528Vac	P/N: IEEE MDBS ECAT IS420	AC Input Options: Printed user manual (User manual & GUI on website)	P/N: 3P208 3P400 3P480 M

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

3. Bus paralleling cable (included with the power supply)

Connectors	Cables	P/N
2013595-1 (TYC0)	Shielded L=11cm	G/P

3. User manual

Printed user manual	G/M
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Models GENESYS+™ GSPL (15/22.5kW)

Models 15kW

Model	Voltage [V]	Current [A]	Power [kW]
GSPL20-750	0~20	0~750	15
GSPL30-500	0~30	0~500	15
GSPL40-376	0~40	0~376	15
GSPL60-250	0~60	0~250	15
GSPL80-188	0~80	0~188	15
GSPL100-150	0~100	0~150	15
GSPL150-100	0~150	0~100	15
GSPL200-75	0~200	0~75	15
GSPL300-50	0~300	0~50	15
GSPL600-25	0~600	0~25	15
GSPL1000-15	0~1000	0~15	15
GSPL1500-10	0~1500	0~10	15

Models 22.5kW

Model	Voltage [V]	Current [A]	Power [kW]
GSPL20-1125	0~20	0~1125	22.5
GSPL30-750	0~30	0~750	22.5
GSPL40-564	0~40	0~564	22.56
GSPL60-375	0~60	0~375	22.5
GSPL80-282	0~80	0~282	22.56
GSPL100-225	0~100	0~225	22.5
GSPL150-150	0~150	0~150	22.5
GSPL200-112.5	0~200	0~112.5	22.5
GSPL300-75	0~300	0~75	22.5
GSPL600-37.5	0~600	0~37.5	22.5
GSPL1000-22.5	0~1000	0~22.5	22.5
GSPL1500-15	0~1500	0~15	22.5

Product Code

G		SPL	-	20	-	750	-		-		-	
Series Name		Output Voltage (0~20V)		Output Current (0~1125A)		Interface Options		AC Input Options		Accessories Options		
Front Panel Type		Interface Options (Factory installed)		P/N:		AC Input Options:		P/N:				
Standard		LAN (LV) 1.5 compliant with multi-drop capability)		-		Three phase 170~265Vac		3P208				
Blank front panel (ATE version)		USB 2.0 compliant with multi-drop capability		-		Three phase 342~528Vac		3P480				
P/N:		RS-232/RS-485		-		Accessories Options:		P/N:				
-		Interface Options (Optional)		P/N:		Printed user manual		M				
B		IEEE (488.2 & SCPI compliant with multi-drop capability installed)		IEEE		(User manual & GUI on website)						
		Modbus-TCP		MDBS								
		EtherCat		ECAT								
		Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)		IS420								

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

3. Bus paralleling cable (included with the power supply)

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

3. Remote sense connector

Connectors	Cables	P/N
Phoenix Contact	Wire AWG - refer to user manual	GIC 2,5 HCV/ 3-ST-7,62

4. User Manual

Printed user manual	G/M
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Our team of experts will be happy to help you find the best power supply for your application.



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