



# Programmable Power Supplies

EMEA Edition | 2024

*TDK-Lambda*

# The Heart of your Application

At TDK-Lambda, a “Power Supply” is more than just an electronic device.

It is the “heart” of our customers’ systems and the core element of safety and reliability. Since 1948 as a leading global manufacturer we have been developing and producing innovative and highly reliable power supplies for a wide spectrum of applications. In addition, with our unique range of activities from research and development through to manufacturing, sales and service, our customers appreciate our experience, know-how and our passion for always wishing to find the best solution for our customers.

TDK-Lambda’s series of programmable power supplies offer a wide range of integrated functions and features. Delivering high power density, excellent usability and reliability it is the best solution for many different applications in test & measurement and industrial control. Typical areas of application are test and measurement, automation and process control, automotive test, general ATE, laser diodes, medical imaging and treatment, semiconductor processing and burn-in.

Powered by Precision

**GENESYS™**

[www.emea.lambda.tdk.com/programmable](http://www.emea.lambda.tdk.com/programmable)



# DC Programmable Power Supplies

Premium quality and performance



DC programmable standard ultra-compact models range in output power from 200W to 22.5kW whilst parallel connection enables solutions up to 90kW. Outputs up to 1500V are available and our products offer various remote interface options.

# 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        |

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

# The next Generation Genesys+™ Series

High performance, high functionality, highest power density



## Product features

- Industry leading power density
- Constant voltage/constant current/constant power limit control
- Scalable power systems up to 90kW
- Voltage and current slew rate control
- Arbitrary waveform function and profile storage
- Internal resistance control
- LAN (**LXI** 1.5), USB, RS-232/RS-485 and isolated analogue interfaces as standard
- Optional interface for EtherCAT, Modbus-TCP, IEEE 488.2 SCPI, IS420 isolated analogue programming (4-20mA)
- Options: blank front panel, dust filter cover
- Extension: **I-SINK** function (electronic power sink)



 [Product website](#)

## Specifications

- 1kW, 1.5kW models in 1U, half 19" rack mount
- 1,1.7, 2.7, 3.4, 5, 7.5kW models in 1U, 19" rack mount
- 10kW in 2U / 15kW in 3U
- 15kW in 2U / 22.5kW in 3U
- Output voltage up to 1500V, current up to 1500A
- 5 years warranty

Higher power systems can be configured with up to twelve (12) 7.5kW units. Each unit is 1U with zero space between them (zero stack).

## Typical applications

- Test and measurement
- Automation
- Component device testing
- Automotive
- Burn-in
- Medical imaging



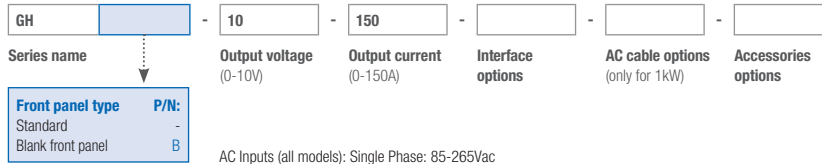
# Product Summary 1U GENESYS+™ GH (1 / 1.5kW)

| Model     | Output voltage [Vdc] | Output current [A] | Output power [W] |
|-----------|----------------------|--------------------|------------------|
| GH10-100  | 0-10                 | 0-100              | 1000             |
| GH10-150  |                      | 0-150              | 1500             |
| GH20-50   | 0-20                 | 0-50               | 1000             |
| GH20-75   |                      | 0-75               | 1500             |
| GH30-34   | 0-30                 | 0-34               | 1020             |
| GH30-50   |                      | 0-50               | 1500             |
| GH40-25   | 0-40                 | 0-25               | 1000             |
| GH40-38   |                      | 0-38               | 1520             |
| GH60-17   | 0-60                 | 0-17               | 1020             |
| GH60-25   |                      | 0-25               | 1500             |
| GH80-12.5 | 0-80                 | 0-12.5             | 1000             |
| GH80-19   |                      | 0-19               | 1520             |
| GH100-10  | 0-100                | 0-10               | 1000             |
| GH100-15  |                      | 0-15               | 1500             |
| GH150-7   | 0-150                | 0-7                | 1050             |
| GH150-10  |                      | 0-10               | 1500             |
| GH300-3.5 | 0-300                | 0-3.5              | 1050             |
| GH300-5   |                      | 0-5                | 1500             |
| GH600-1.7 | 0-600                | 0-1.7              | 1020             |
| GH600-2.6 |                      | 0-2.6              | 1560             |



## Product-Code

GENESYS+™ GH (1/1.5kW)



### Interface options (factory installed)

RS-232/RS-485

USB 2.0

LAN interface (complies with **LI** class C)

0-5V/10V: analogue Interface (isolated)

### Interface options (optional)

IEEE 488.2 (GPIB) interface

Modbus-TCP

EtherCat

### P/N: AC cable options 1kW only

- Europe

- North America

- Japan

- China

### P/N: Middle East

### IEEE Accessories options

MDBS Printed user manual

ECAT (User manual & GUI on website)

Bus paralleling cable

### P/N: Accessories

E Rack mounting applications

U 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

J To install one GH1kW/1.5kW unit or two units side-by-side in a standard 19" rack in 1U (1.75") height, use option kit

C Single unit installation

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

M Dual unit installation

P 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.

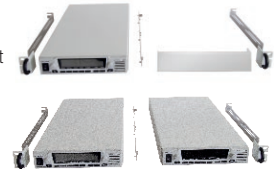
To install a GH1kW/1.5kW two units one on top of the other use option kit

### P/N:

GH/RM

GH/MO

GH/MO-2U



# Product Summary 1U GENESYS+™ G (1-7.5kW)

| Model   | Output voltage [Vdc] | Output current [A] | Output power [W] |
|---------|----------------------|--------------------|------------------|
| G10-100 | 0-10                 | 0-100              | 1000             |
| G10-170 |                      | 0-170              | 1700             |
| G10-265 |                      | 0-265              | 2700             |
| G10-340 |                      | 0-340              | 3400             |
| G10-500 |                      | 0-500              | 5000             |
| G20-50  | 0-20                 | 0-50               | 1000             |
| G20-85  |                      | 0-85               | 1700             |
| G20-135 |                      | 0-135              | 2700             |
| G20-170 |                      | 0-170              | 3400             |
| G20-250 |                      | 0-250              | 5000             |
| G20-375 |                      | 0-375              | 7500             |
| G30-34  | 0-30                 | 0-34               | 1020             |
| G30-56  |                      | 0-56               | 1680             |
| G30-90  |                      | 0-90               | 2700             |
| G30-112 |                      | 0-112              | 3360             |
| G30-170 |                      | 0-170              | 5100             |
| G30-250 |                      | 0-250              | 7500             |

| <b>Model</b> | <b>Output voltage<br/>[Vdc]</b> | <b>Output current<br/>[A]</b> | <b>Output power<br/>[W]</b> |
|--------------|---------------------------------|-------------------------------|-----------------------------|
| G40-25       | 0-40                            | 0-25                          | 1000                        |
| G40-42       |                                 | 0-42                          | 1680                        |
| G40-68       |                                 | 0-68                          | 2720                        |
| G40-85       |                                 | 0-85                          | 3400                        |
| G40-125      |                                 | 0-125                         | 5000                        |
| G40-188      |                                 | 0-188                         | 7520                        |
| G50-100      |                                 | 0-50                          | 0-100                       |
| G60-17       | 0-60                            | 0-17                          | 1020                        |
| G60-28       |                                 | 0-28                          | 1680                        |
| G60-45       |                                 | 0-45                          | 2700                        |
| G60-56       |                                 | 0-56                          | 3360                        |
| G60-85       |                                 | 0-85                          | 5100                        |
| G60-125      |                                 | 0-125                         | 7500                        |
| G80-12.5     |                                 | 0-80                          | 0-12.5                      |
| G80-21       | 0-21                            |                               | 1680                        |
| G80-34       | 0-34                            |                               | 2720                        |
| G80-42       | 0-42                            |                               | 3360                        |
| G80-65       | 0-65                            |                               | 5200                        |
| G80-94       | 0-94                            |                               | 7500                        |

# Product Summary 1U GENESYS+™ G (1-7.5kW)

| Model     | Output voltage [Vdc] | Output current [A] | Output power [W] |
|-----------|----------------------|--------------------|------------------|
| G100-10   | 0-100                | 0-10               | 1000             |
| G100-17   |                      | 0-17               | 1700             |
| G100-27   |                      | 0-27               | 2700             |
| G100-34   |                      | 0-34               | 3400             |
| G100-50   |                      | 0-50               | 5000             |
| G100-75   |                      | 0-75               | 7500             |
| G150-7    |                      | 0-150              | 0-7              |
| G150-11.2 | 0-11.2               |                    | 1680             |
| G150-18   | 0-18                 |                    | 2700             |
| G150-22.5 | 0-22.5               |                    | 3375             |
| G150-34   | 0-34                 |                    | 5100             |
| G150-50   | 0-50                 |                    | 7500             |
| G200-25   | 0-200                |                    | 0-25             |
| G200-37.5 |                      | 0-37.5             | 7500             |
| G300-3.5  | 0-300                | 0-3.5              | 1050             |
| G300-5.6  |                      | 0-5.6              | 1680             |
| G300-9    |                      | 0-9                | 2700             |
| G300-11.5 |                      | 0-11.5             | 3450             |
| G300-17   |                      | 0-17               | 5100             |
| G300-25   |                      | 0-25               | 7500             |
| G400-13   |                      | 0-400              | 0-13             |

| Model      | Output voltage [Vdc] | Output current [A] | Output power [W] |
|------------|----------------------|--------------------|------------------|
| G500-10    | 0-500                | 0-10               | 5000             |
| G600-1.7   | 0-600                | 0-1.7              | 1020             |
| G600-2.8   |                      | 0-2.8              | 1680             |
| G600-4.5   |                      | 0-4.5              | 2700             |
| G600-5.6   |                      | 0-5.6              | 3360             |
| G600-8.5   |                      | 0-8.5              | 5100             |
| G600-12.5  |                      | 0-12.5             | 7500             |
| G1000-5*   | 0-1000               | 0-5                | 5000             |
| G1000-7.5  |                      | 0-7.5              | 7500             |
| G1500-3.4* | 0-1500               | 0-3.4              | 5000             |
| G1500-5    |                      | 0-5                | 7500             |

\*with bussbar, cover

## Product-Code

GENESYS+™ G (1/1.7kW)

|                   |      |   |                        |   |                         |   |                   |   |                                 |   |                     |
|-------------------|------|---|------------------------|---|-------------------------|---|-------------------|---|---------------------------------|---|---------------------|
| 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



# Product Summary 1U GENESYS+™ G (1-7.5kW)

## Product-Code

### GENESYS+™ G (2.7/3.4kW)

|   |  |   |                           |   |                            |   |                   |   |                  |   |                     |
|---|--|---|---------------------------|---|----------------------------|---|-------------------|---|------------------|---|---------------------|
| G   |  | - | 10                        | - | 340                        | - |                   | - |                  | - |                     |
| Series name   |  |   | Output voltage<br>(0-10V) |   | Output current<br>(0-340A) |   | Interface options |   | AC input options |   | Accessories options |
| <b>Front panel type</b> P/N:<br>Standard -<br>Blank front panel B |  |   |                           |   |                            |   |                   |   |                  |   |                     |

### GENESYS+™ G (5kW)

|   |  |   |                           |   |                            |   |                   |   |                  |   |                     |
|---|--|---|---------------------------|---|----------------------------|---|-------------------|---|------------------|---|---------------------|
| G   |  | - | 10                        | - | 500                        | - |                   | - |                  | - |                     |
| Series name   |  |   | Output voltage<br>(0-10V) |   | Output current<br>(0-500A) |   | Interface options |   | AC input options |   | Accessories options |
| <b>Front panel type</b> P/N:<br>Standard -<br>Blank front panel B |  |   |                           |   |                            |   |                   |   |                  |   |                     |

### GENESYS+™ G (7.5kW)

|   |  |   |                           |   |                            |   |                   |   |                  |   |                     |
|---|--|---|---------------------------|---|----------------------------|---|-------------------|---|------------------|---|---------------------|
| G   |  | - | 20                        | - | 375                        | - |                   | - |                  | - |                     |
| Series name   |  |   | Output voltage<br>(0-20V) |   | Output current<br>(0-375A) |   | Interface options |   | AC input options |   | Accessories options |
| <b>Front panel type</b> P/N:<br>Standard -<br>Blank front panel B |  |   |                           |   |                            |   |                   |   |                  |   |                     |

#### Interface options (factory installed)

RS-232/RS-485  
 USB 2.0  
 LAN interface (complies with **LV** class C)

#### P/N:

-  
 -  
 -

#### Interface options (optional)

IEEE 488.2 (GPIB) interface  
 Modbus-TCP  
 EtherCat  
 Isolated analogue current program/monitor interface  
 (4mA-20mA with 1500V isolation)

#### P/N:

IEEE  
 MDDBS  
 ECAT  
 IS420

#### AC input options

1-Phase 170-265Vac 2.7/3.4 kW only  
 3-Phase 170-265Vac  
 3-Phase 342-460Vac without 5kW high voltage  
 3-Phase 342-528Vac

#### P/N:

1P208  
 3P208  
 3P400  
 3P480

#### AC cable options 1kW only

Europe  
 North America  
 Japan  
 China  
 Middle East

#### P/N:

E  
 U  
 J  
 C  
 I

#### Accessories options

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

#### P/N:

M  
 P

## Product Summary GENESYS+™ GSP (2U 10kW / 3U 15kW)

| Model      | Output voltage [Vdc] | Output current [A] | Output power [kW] |
|------------|----------------------|--------------------|-------------------|
| GSP10-1000 | 0-10                 | 0-1000             | 10                |
| GSP10-1500 |                      | 0-1500             | 15                |
| GSP20-500  | 0-20                 | 0-500              | 10                |
| GSP20-750  |                      | 0-750              | 15                |
| GSP30-340  | 0-30                 | 0-340              | 10.2              |
| GSP30-510  |                      | 0-510              | 15.3              |
| GSP40-250  | 0-40                 | 0-250              | 10                |
| GSP40-375  |                      | 0-375              | 15                |
| GSP50-200  | 0-50                 | 0-200              | 10                |
| GSP50-300  |                      | 0-300              | 15                |
| GSP60-170  | 0-60                 | 0-170              | 10.2              |
| GSP60-255  |                      | 0-255              | 15.3              |
| GSP80-130  | 0-80                 | 0-130              | 10.4              |
| GSP80-195  |                      | 0-195              | 15.6              |
| GSP100-100 | 0-100                | 0-100              | 10                |
| GSP100-150 |                      | 0-150              | 15                |
| GSP150-68  | 0-150                | 0-68               | 10.2              |
| GSP150-102 |                      | 0-102              | 15.3              |
| GSP200-50  | 0-200                | 0-50               | 10                |
| GSP200-75  |                      | 0-75               | 15                |
| GSP300-34  | 0-300                | 0-34               | 10.2              |
| GSP300-51  |                      | 0-51               | 15.3              |

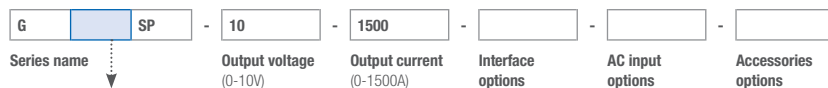


# Product Summary GENESYS+™ GSP (2U 10kW / 3U 15kW)

| Model       | Output voltage [Vdc] | Output current [A] | Output power [kW] |
|-------------|----------------------|--------------------|-------------------|
| GSP400-26   | 0-400                | 0-26               | 10.4              |
| GSP400-39   |                      | 0-39               | 15.6              |
| GSP500-20   | 0-500                | 0-20               | 10                |
| GSP500-30   |                      | 0-30               | 15                |
| GSP600-17   | 0-600                | 0-17               | 10.2              |
| GSP600-25.5 |                      | 0-25.5             | 15.3              |

## Product-Code

GENESYS+™ GSP (10/15kW)



| Front panel type  | P/N: |
|-------------------|------|
| Standard          | -    |
| Blank front panel | B    |

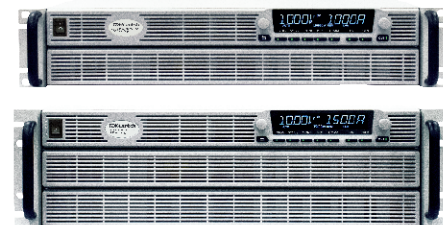
### Interface options (factory installed)

- RS-232/RS-485: analogue interface (isolated)
- USB 2.0
- LAN interface (complies with **LXI** class C)

### Interface options (optional)

- P/N:**
- IEEE 488.2 (GPIB) interface
  - Modbus-TCP
  - EtherCat
  - Isolated analogue current program/monitor interface (4mA-20mA with 1500V isolation)

- P/N:**
- IEEE
  - MDBS
  - ECAT
  - IS420



### AC input options

- 3-Phase 170-265Vac
- 3-Phase 342-460Vac
- 3-Phase 342-528Vac

- P/N:**
- 3P208
  - 3P400
  - 3P480

### Accessories options

- Printed user manual
- (User manual & GUI on website)

- P/N:**
- M

# Product Summary GENESYS+™ GSPL (2U 15kW / 3U 22.5kW)

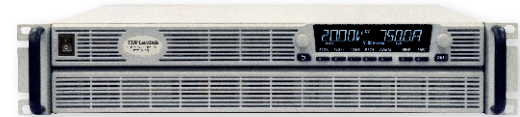
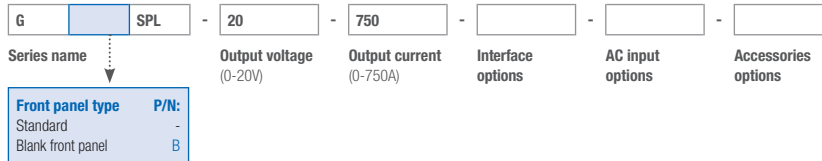
| Model         | Output voltage [Vdc] | Output current [A] | Output power [kW] |
|---------------|----------------------|--------------------|-------------------|
| GSPL20-750    | 0-20                 | 0-750              | 15                |
| GSPL20-1125   |                      | 0-1125             | 22.5              |
| GSPL30-500    | 0-30                 | 0-500              | 15                |
| GSPL30-750    |                      | 0-750              | 22.5              |
| GSPL40-376    | 0-40                 | 0-376              | 15                |
| GSPL40-564    |                      | 0-564              | 22.5              |
| GSPL60-250    | 0-60                 | 0-250              | 15                |
| GSPL60-375    |                      | 0-375              | 22.5              |
| GSPL80-188    | 0-80                 | 0-188              | 15                |
| GSPL80-282    |                      | 0-282              | 22.5              |
| GSPL100-150   | 0-100                | 0-150              | 15                |
| GSPL100-225   |                      | 0-225              | 22.5              |
| GSPL150-100   | 0-150                | 0-100              | 15                |
| GSPL150-150   |                      | 0-150              | 22.5              |
| GSPL200-75    | 0-200                | 0-75               | 15                |
| GSPL200-112.5 |                      | 0-112.5            | 22.5              |
| GSPL300-50    | 0-300                | 0-50               | 15                |
| GSPL300-75    |                      | 0-75               | 22.5              |
| GSPL600-25    | 0-600                | 0-25               | 15                |
| GSPL600-37.5  |                      | 0-37.5             | 22.5              |

## Product Summary GENESYS+™ GSPL (2U 15kW / 3U 22.5kW)

| Model         | Output voltage [Vdc] | Output current [A] | Output power [kW] |
|---------------|----------------------|--------------------|-------------------|
| GSPL1000-15   | 0-1000               | 0-15               | 15                |
| GSPL1000-22.5 |                      | 0-22.5             | 22.5              |
| GSPL1500-10   | 0-1500               | 0-10               | 15                |
| GSPL1500-15   |                      | 0-15               | 22.5              |

## Product-Code

GENESYS+™ GSPL (15kW-22.5kW)



### Interface options (factory installed)

RS-232/RS-485: analogue interface (isolated)  
 USB 2.0  
 LAN interface (complies with **LV** 1.5)

### P/N: Interface options (optional)

- IEEE 488.2 (GPIB) interface
- Modbus-TCP
- EtherCat

Isolated analogue current program/monitor interface  
 (4mA-20mA with 1500V isolation)

### P/N: AC input options

IEEE 3-Phase 170-265Vac  
 MBDS 3-Phase 342-528Vac  
 ECAT

IS420

### Accessories options

Printed user manual  
 (User manual & GUI on website)

### P/N:

3P208  
 3P480

### P/N:

M

# GENESYS+™ GSPS High Power Systems

Configurable solutions up to 90kW  
in 20U, 19 inch rack cabinet



## Product features

- Industry leading power density
- Constant voltage/constant current/constant power limit control
- Voltage and current slew rate control
- Arbitrary waveform function and profile storage
- Internal resistance control
- LAN (**LXI** 1.5), USB, RS-232/RS-485 and isolated analogue interfaces as standard
- Optional Interface for EtherCAT, Modbus-TCP, IEEE 488.2 SCPI
- Options: blank front panel



 [Product website](#)

## Specifications

- Configurable, air cooled solutions
- 30kW, 45kW, 60kW and 90kW in 20U rack mount
- Output voltage up to 1500V, current up to 4500A
- Parallel Systems with auto-configure
- 5 years warranty

## Typical applications

- Test and measurement
- Automotive component & HIL testing
- Component device testing
- Industrial automation and process control
- Semiconductor processing & burn-in
- Aerospace & satellite testing
- Medical imaging
- Magnets, RF magnifiers and beam steering
- Green technology

## Product Summary GENESYS+™ GSPS (30 / 45 / 60 / 90kW)

| Model       | Output Voltage [Vdc] | Output current [A] | Output power [kW] |
|-------------|----------------------|--------------------|-------------------|
| GSPS10-3000 | 0-10                 | 0-3000             | 30                |
| GSPS10-4500 |                      | 0-4500             | 45                |
| GSPS20-1500 | 0-20                 | 0-1500             | 30                |
| GSPS20-2250 |                      | 0-2250             | 45                |
| GSPS20-3000 |                      | 0-3000             | 60                |
| GSPS20-4500 |                      | 0-4500             | 90                |
| GSPS30-1020 | 0-30                 | 0-1020             | 30.6              |
| GSPS30-1530 |                      | 0-1530             | 45.9              |
| GSPS30-2040 |                      | 0-2040             | 61.2              |
| GSPS30-3000 |                      | 0-3000             | 90                |
| GSPS40-750  | 0-40                 | 0-750              | 30                |
| GSPS40-1125 |                      | 0-1125             | 45                |
| GSPS40-1500 |                      | 0-1500             | 60                |
| GSPS40-2256 |                      | 0-2256             | 90.24             |
| GSPS50-600  | 0-50                 | 0-600              | 30                |
| GSPS50-900  |                      | 0-900              | 45                |
| GSPS50-1200 |                      | 0-1200             | 60                |
| GSPS60-510  | 0-60                 | 0-510              | 30.6              |
| GSPS60-765  |                      | 0-765              | 45.9              |
| GSPS60-1020 |                      | 0-1020             | 61.2              |
| GSPS60-1500 |                      | 0-1500             | 90                |



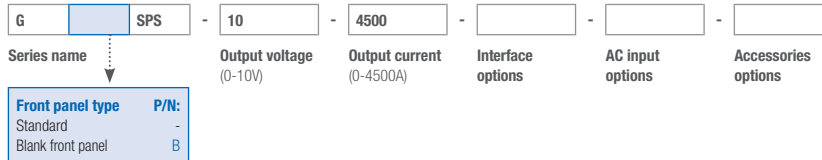
# Product Summary GENESYS+™ GSPS (30/45/60/90kW)

| Model       | Output Voltage [Vdc] | Output current [A] | Output power [kW] |
|-------------|----------------------|--------------------|-------------------|
| GSPS80-390  | 0-80                 | 0-390              | 31.2              |
| GSPS80-585  |                      | 0-585              | 46.8              |
| GSPS80-780  |                      | 0-780              | 62.4              |
| GSPS80-1128 |                      | 0-1128             | 90.24             |
| GSPS100-300 | 0-100                | 0-300              | 30                |
| GSPS100-450 |                      | 0-450              | 45                |
| GSPS100-600 |                      | 0-600              | 60                |
| GSPS100-900 |                      | 0-900              | 90                |
| GSPS150-204 | 0-150                | 0-204              | 30.6              |
| GSPS150-306 |                      | 0-306              | 45.9              |
| GSPS150-408 |                      | 0-408              | 61.2              |
| GSPS150-600 |                      | 0-600              | 90                |
| GSPS200-150 | 0-200                | 0-150              | 30                |
| GSPS200-225 |                      | 0-225              | 45                |
| GSPS200-300 |                      | 0-300              | 60                |
| GSPS200-400 |                      | 0-400              | 90                |
| GSPS300-102 | 0-300                | 0-102              | 30.6              |
| GSPS300-153 |                      | 0-153              | 45.9              |
| GSPS300-204 |                      | 0-204              | 61.2              |
| GSPS300-300 |                      | 0-300              | 90                |

| <b>Model</b>  | <b>Output Voltage [Vdc]</b> | <b>Output current [A]</b> | <b>Output power [kW]</b> |
|---------------|-----------------------------|---------------------------|--------------------------|
| GSPS400-78    | 0-400                       | 0-78                      | 31.2                     |
| GSPS400-117   |                             | 0-117                     | 46.8                     |
| GSPS400-156   |                             | 0-156                     | 62.4                     |
| GSPS500-60    | 0-500                       | 0-60                      | 30                       |
| GSPS500-90    |                             | 0-90                      | 45                       |
| GSPS500-120   |                             | 0-120                     | 60                       |
| GSPS600-51    | 0-600                       | 0-51                      | 30.6                     |
| GSPS600-76.5  |                             | 0-76.5                    | 45.9                     |
| GSPS600-102   |                             | 0-102                     | 61.2                     |
| GSPS600-150   |                             | 0-150                     | 90                       |
| GSPS1000-45   | 0-1000                      | 0-45                      | 45                       |
| GSPS1000-67.5 |                             | 0-67.5                    | 67.5                     |
| GSPS1000-90   |                             | 0-90                      | 90                       |
| GSPS1500-30   | 0-1500                      | 0-30                      | 45                       |
| GSPS1500-45   |                             | 0-45                      | 67.5                     |
| GSPS1500-60   |                             | 0-60                      | 90                       |

## Product-Code

GENESYS+™ GSPS (30 / 45 / 60 / 90kW)



### Interface options (factory installed)

RS-232/RS-485: analogue interface (isolated)  
 USB 2.0  
 LAN interface (complies with **LV** class C)  
 0-5V/10V: analogue Interface

### Interface options (optional)

IEEE 488.2 (GPIB) interface  
 Modbus-TCP  
 EtherCat

### P/N: AC input options

- 3-Phase 170-265Vac\*  
 - 3-Phase 342-528Vac

### P/N: Accessories options

Printed user manual

### P/N: (User manual & GUI on website)

IEEE  
 MDBS  
 ECAT

### P/N:

3P208  
 3P480

### P/N:

M

\* only up to 60kW/600V output voltage systems



# A lot to offer in 2U: Z+ Series

High density, highly flexible, many applications



## Product features

- Same package size (2U format) for all models
- Benchtop and rack mounted (19")
- 16 bit resolution and extremely fast programming response
- Integrated arbitrary waveform generation with internal storage for up to four individual sequencing curves
- High functionality for a wide variety of test applications
- Extensively equipped (including software package)
- Interface: USB, RS-232 & RS-485, analogue control & monitoring
- Optional: LAN, IEEE, isolated analogue interfaces & front panel output sockets



## Specifications

- 200, 400, 600, 800W models in 2U
- Input voltage:  
85-265Vac single phase, 47-63Hz
- Output voltage 10, 20, 36, 60, 100, 160, 320, 375, 650Vdc
- User programmable signal pins
- 5 years warranty

## Typical applications

- Test and measurement
- Part and component testing
- ATE and laser diodes
- Automotive



Product website

## Product Summary Z+ 200-800W

| Model   | Output Voltage [Vdc] | Output Current [A] | Output Power [W] |
|---------|----------------------|--------------------|------------------|
| Z10-20  | 0-10                 | 0-20               | 200              |
| Z10-40  |                      | 0-40               | 400              |
| Z10-60  |                      | 0-60               | 600              |
| Z10-72  |                      | 0-72               | 720              |
| Z20-10  | 0-20                 | 0-10               | 200              |
| Z20-20  |                      | 0-20               | 400              |
| Z20-30  |                      | 0-30               | 600              |
| Z20-40  |                      | 0-40               | 800              |
| Z36-6   | 0-36                 | 0-6                | 216              |
| Z36-12  |                      | 0-12               | 432              |
| Z36-18  |                      | 0-18               | 648              |
| Z36-24  |                      | 0-24               | 864              |
| Z60-3.5 | 0-60                 | 0-3.5              | 210              |
| Z60-7   |                      | 0-7                | 420              |
| Z60-10  |                      | 0-10               | 600              |
| Z60-14  |                      | 0-14               | 840              |
| Z100-2  | 0-100                | 0-2                | 200              |
| Z100-4  |                      | 0-4                | 400              |
| Z100-6  |                      | 0-6                | 600              |
| Z100-8  |                      | 0-8                | 800              |

| Model     | Output Voltage [Vdc] | Output Current [A] | Output Power [W] |
|-----------|----------------------|--------------------|------------------|
| Z160-1.3  | 0-160                | 0-1.3              | 208              |
| Z160-2.6  |                      | 0-2.6              | 416              |
| Z160-4    |                      | 0-4                | 640              |
| Z160-5    |                      | 0-5                | 800              |
| Z320-0.65 | 0-320                | 0-0.65             | 208              |
| Z320-1.3  |                      | 0-1.3              | 416              |
| Z320-2    |                      | 0-2                | 640              |
| Z320-2.5  |                      | 0-2.5              | 800              |
| Z375-2.2  | 0-375                | 0-2.2              | 825              |
| Z650-0.32 | 0-650                | 0-0.32             | 208              |
| Z650-0.64 |                      | 0-0.64             | 416              |
| Z650-1    |                      | 0-1                | 650              |
| Z650-1.25 |                      | 0-1.25             | 812              |

## Product-Code Z+ 200-800W

-  -  -  -  -

**Series Name**    **Output voltage** (0-36V)    **Output current** (0-12A)    **Interface options**    **Front panel output jacks**    **AC cable**

### Interface options (factory installed)

USB, RS-232/RS-485 interface, analogue interface (non-isolated)

### Interface options (optional)

LAN interface (complies with **LXI** class C)

IEEE 488.2 (GPIB) interface

0-5V/10V: analogue interface (isolated)

4-20mA: analogue interface (isolated)

### Front panel output jack (optional)

60V or 24A max.

CAT III type: 650V or 24A max.

### P/N: AC cable (optional) P/N:

LAN Europe E

IEEE United Kingdom GB

IS510 North America U

IS420 Middle East I

### P/N:

L

L2



# The Powerful Genesys™ Series

Exceptional reliability and performance – up to 600V



## Product features

- Benchtop and rack mounted (19")
- Auto-restart/safe-start user-selectable
- Interfaces: RS-232 & RS-485, analogue control & monitoring
- Optional: LAN, IEEE, isolated analogue control, Power sink and fast speed
- Extension: **I-SINK** function (electronic power sink)



Product website

## Specifications

- 750 in ½ 19" or 19", 1500, 2400W models in 1U
- 3.3, 5kW models in 2U
- Active power factor correction (single-phase & three-phase AC input)
- Output voltage up to 600V, output current up to 600A
- 5 years warranty

## Typical applications

- Test and measurement
- Automation
- Part and component testing
- Automotive
- Burn-in

## Product Summary 1U GENH 750W (GEN 750W-2.4kW)

| Model       | Output voltage [Vdc] | Output current [A] | Output power [W] |
|-------------|----------------------|--------------------|------------------|
| GENH6-100   | 0-6                  | 0-100              | 600              |
| GEN6-100    |                      | 0-100              | 600              |
| GEN6-200    |                      | 0-200              | 1200             |
| GENH8-90    | 0-8                  | 0-90               | 720              |
| GEN8-90     |                      | 0-90               | 720              |
| GEN8-180    |                      | 0-180              | 1440             |
| GEN8-300    |                      | 0-300              | 2400             |
| GEN10-240   | 0-10                 | 0-240              | 2400             |
| GENH12.5-60 | 0-12.5               | 0-60               | 750              |
| GEN12.5-60  |                      | 0-60               | 750              |
| GEN12.5-120 |                      | 0-120              | 1500             |
| GEN16-150   | 0-16                 | 0-150              | 2400             |
| GENH20-38   | 0-20                 | 0-38               | 760              |
| GEN20-38    |                      | 0-38               | 760              |
| GEN20-76    |                      | 0-76               | 1520             |
| GEN20-120   |                      | 0-120              | 2400             |
| GENH30-25   | 0-30                 | 0-25               | 750              |
| GEN30-25    |                      | 0-25               | 750              |
| GEN30-50    |                      | 0-50               | 1500             |
| GEN30-80    |                      | 0-80               | 2400             |

| Model       | Output voltage [Vdc] | Output current [A] | Output power [W] |
|-------------|----------------------|--------------------|------------------|
| GENH40-19   | 0-40                 | 0-19               | 760              |
| GEN40-19    |                      | 0-19               | 760              |
| GEN40-38    |                      | 0-38               | 1520             |
| GEN40-60    |                      | 0-60               | 2400             |
| GEN50-30    | 0-50                 | 0-30               | 1500             |
| GENH60-12.5 | 0-60                 | 0-12.5             | 750              |
| GEN60-12.5  |                      | 0-12.5             | 750              |
| GEN60-25    |                      | 0-25               | 1500             |
| GEN60-40    |                      | 0-40               | 2400             |
| GENH80-9.5  | 0-80                 | 0-9.5              | 760              |
| GEN80-9.5   |                      | 0-9.5              | 760              |
| GEN80-19    |                      | 0-19               | 1520             |
| GEN80-30    |                      | 0-30               | 2400             |



## Product Summary 1U GENH 750W (GEN 750W-2.4kW)

| Model       | Output voltage<br>[Vdc] | Output current<br>[A] | Output power<br>[W] |
|-------------|-------------------------|-----------------------|---------------------|
| GENH100-7.5 | 0-100                   | 0-7.5                 | 750                 |
| GEN100-7.5  |                         | 0-7.5                 | 750                 |
| GEN100-15   |                         | 0-15                  | 1500                |
| GEN100-24   |                         | 0-24                  | 2400                |
| GENH150-5   | 0-150                   | 0-5                   | 750                 |
| GEN150-5    |                         | 0-5                   | 750                 |
| GEN150-10   |                         | 0-10                  | 1500                |
| GEN150-16   |                         | 0-16                  | 2400                |
| GENH300-2.5 | 0-300                   | 0-2.5                 | 750                 |
| GEN300-2.5  |                         | 0-2.5                 | 750                 |
| GEN300-5    |                         | 0-5                   | 1500                |
| GEN300-8    |                         | 0-8                   | 2400                |
| GENH600-1.3 | 0-600                   | 0-1.3                 | 780                 |
| GEN600-1.3  |                         | 0-1.3                 | 780                 |
| GEN600-2.6  |                         | 0-2.6                 | 1560                |
| GEN600-4    |                         | 0-4                   | 2400                |

## Product-Code

### GENH 750W 1U

GEN H - 600 - 1.3 -  -

Series Name Output voltage (0-600V) Output current (0-1.3A) Interface options AC cable

### GEN 2400W 1U

GEN - 40 - 60 -  -

Series Name Output voltage (0-40V) Output current (0-60A) Interface options AC input options

### GEN 750/1500 W with Power Sink

GEN - 60 - 25 -  - PSINK - LN

Series Name Output voltage (0-60V) Output current (0-25A) Interface options Low noise Up to 60V only

#### Interface options (factory installed)

RS-232/RS-485 interface, analogue interface (non-isolated)

P/N:

-

#### Interface options (optional)

LAN interface (complies with **LXI** class C)

P/N:

LAN

IEEE 488.2 (GPIB) interface

IEEE

0-5V/10V: analogue interface (isolated)

IS510

4-20mA: analogue interface (isolated)

IS420

#### Power sink

750/1500W, 12.5-60V models

P/N:

PSINK

#### AC cable (optional) 750W only

Europe

P/N:

E

United Kingdom

GB

North America

U

Middle East

I

#### AC input options

1-Phase 230Vac

P/N:

1P230

3-Phase 208Vac

3P208



## Product Summary 2U GEN 3.3-5.5kW

| Model       | Output voltage<br>[Vdc] | Output current<br>[A] | Output power<br>[W] |
|-------------|-------------------------|-----------------------|---------------------|
| GEN8-400    | 0-8                     | 0-400                 | 3200                |
| GEN8-600    |                         | 0-600                 | 4800                |
| GEN10-330   | 0-10                    | 0-330                 | 3300                |
| GEN10-500   |                         | 0-500                 | 5000                |
| GEN15-220   | 0-15                    | 0-220                 | 3300                |
| GEN16-310   | 0-16                    | 0-310                 | 4960                |
| GEN20-165   | 0-20                    | 0-165                 | 3300                |
| GEN20-250   |                         | 0-250                 | 5000                |
| GEN30-110   | 0-30                    | 0-110                 | 3300                |
| GEN30-170   |                         | 0-170                 | 5100                |
| GEN40-85    | 0-40                    | 0-85                  | 3400                |
| GEN40-125   |                         | 0-125                 | 5000                |
| GEN60-55    | 0-60                    | 0-55                  | 3300                |
| GEN60-85    |                         | 0-85                  | 5100                |
| GEN80-42    | 0-80                    | 0-42                  | 3360                |
| GEN80-65    |                         | 0-65                  | 5200                |
| GEN100-33   | 0-100                   | 0-33                  | 3300                |
| GEN100-50   |                         | 0-50                  | 5000                |
| GEN150-22   | 0-150                   | 0-22                  | 3300                |
| GEN150-34   |                         | 0-34                  | 5100                |
| GEN200-16.5 | 0-200                   | 0-16.5                | 3300                |
| GEN200-25   |                         | 0-25                  | 5000                |

| Model      | Output voltage<br>[Vdc] | Output current<br>[A] | Output power<br>[W] |
|------------|-------------------------|-----------------------|---------------------|
| GEN300-11  | 0-300                   | 0-11                  | 3300                |
| GEN300-17  |                         | 0-17                  | 5100                |
| GEN400-13  | 0-400                   | 0-13                  | 5200                |
| GEN500-10  | 0-500                   | 0-10                  | 5000                |
| GEN600-5.5 | 0-600                   | 0-5.5                 | 3300                |
| GEN600-8.5 |                         | 0-8.5                 | 5100                |

## GEN 3.3kW 2U

|             |   |                       |   |                         |   |                   |   |                  |   |                   |
|-------------|---|-----------------------|---|-------------------------|---|-------------------|---|------------------|---|-------------------|
| GEN         | - | 8                     | - | 400                     | - |                   | - |                  | - | F                 |
| Series Name |   | Output voltage (0-8V) |   | Output current (0-400A) |   | Interface options |   | AC input options |   | Fast speed option |

## GEN 5kW 2U

|             |   |                        |   |                         |   |                   |   |                  |   |                   |
|-------------|---|------------------------|---|-------------------------|---|-------------------|---|------------------|---|-------------------|
| GEN         | - | 10                     | - | 500                     | - |                   | - |                  | - | F                 |
| Series Name |   | Output voltage (0-10V) |   | Output current (0-500A) |   | Interface options |   | AC input options |   | Fast speed option |



## Product-Code

### Interface options (factory installed)

RS-232/RS-485 interface, analogue interface (non-isolated)

### Interface options (optional)

LAN interface (complies with **LXI** class C)

IEEE 488.2 (GPIB) interface

0-5V/10V: analogue interface (isolated)

4-20mA: analogue interface (isolated)

### AC input options

1-Phase 230Vac 3.3kW only

3-Phase 208Vac

3-Phase 400Vac

### Option

Fast speed

P/N:

-

P/N:

LAN

IEEE

IS510

IS420

P/N:

1P230

3P208

3P400

P/N:

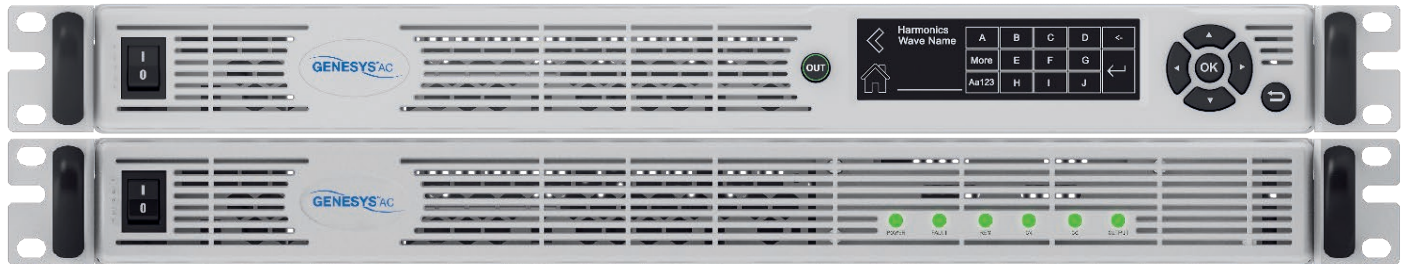
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# AC Power Sources

High density, fully programmable and easy to use

These programmable 2-3kVA AC power sources have a very high power density, output voltages from 0-350Vac and  $\pm 500$ Vdc (GAC PRO), and frequencies from 16Hz up to 5kHz.



## Product features

- Intuitive GUI
- GUI commonality for AC / DC
- Wide library of test profiles
- LAN, USB, RS232, RS485 as standard
- Optional IEEE488 / GPIB
- Crest Factor – 4:1 peak current



Product website

## Specifications

- Output power – 2kVA or 3kVA in 1U
- Output voltage – 0-350Vac,  $\pm 500$ Vdc
- Output current – 0-20A or 0-30A
- Output frequency – DC & 16Hz-5kHz
- 5 year warranty

## Typical applications

- AC / Grid operated products
- ATE / Laboratory (R&D) equipment
- Automotive, e-mobility & on-board charger
- Test & measurement
- Shipboard & defense

## Product Summary GAC, GAC-PRO 2kVA, 3kVA

|                                | GENESYS™ AC models   |                | GENESYS™ AC-PRO models       |                              |
|--------------------------------|--|----------------|------------------------------|------------------------------|
| Model                          | GAC-02   | GAC-03         | GAC-PRO 02                   | GAC-PRO 03                   |
| <b>Rated power AC</b>          | <b>2000 VA</b>   | <b>3000 VA</b> | <b>2000 VA</b>               | <b>3000 VA</b>               |
| Operating modes                | AC   | AC             | AC-DC, AC+DC                 | AC-DC, AC+DC                 |
| AC voltage range               | 0-350Vac   | 0-350Vac       | 0-350Vac                     | 0-350Vac                     |
| AC current range               | 0-20A  | 0-30A          | 0-20A                        | 0-30A                        |
| Output frequency               | 16-1200Hz  | 16-1200Hz      | 16-1200Hz (16-5000Hz option) | 16-1200Hz (16-5000Hz option) |
| Peak AC current (Crest factor) | 120A (6:1 CF)  | 120A (4:1 CF)  | 120A (6:1 CF)                | 120A (4:1 CF)                |
| DC power                       | N/A  | N/A            | 2000W                        | 3000W                        |
| DC voltage range               | N/A  | N/A            | from -500Vdc to +500Vdc      | from -500Vdc to +500Vdc      |
| DC current range               | N/A  | N/A            | 0-20A                        | 0-30A                        |
| Phases*                        | Output phase per unit*   |                |                              |                              |
| Load PF                        | 0-1 leading or lagging   |                |                              |                              |
| AC input range                 | Single phase: 85-265Vac (Derate to 1.5kVA below 170Vac), Three phase: 170-265 Vac or 342-528 Vac |                |                              |                              |

\* Multiple identical units are user configurable to parallel to higher power or split and three phase configurations.

Select your individual AC Power source in a few clicks



AC Quick Product Finder

## Product-Code

|                |   |    |   |   |   |   |   |    |   |    |   |
|----------------|---|----|---|---|---|---|---|----|---|----|---|
| GAC<br>GAC-PRO | - | 03 | A | A | 1 | A | - | 00 | A | 00 | A |
|----------------|---|----|---|---|---|---|---|----|---|----|---|

Series name      Output apparent power      Front panel type      Input power      Communication interface      Frequency limit      Avionic standards      IEC & Various standards      Additional options      Accessories

|                                 |             |  |             |  |             |
|---------------------------------|-------------|--|-------------|--|-------------|
| <b>Output apparent power</b>    | <b>P/N:</b> | <b>Interface options</b>                                     | <b>P/N:</b> | <b>IEC &amp; various standards</b>                 | <b>P/N:</b> |
| 2kVA                            | 02          | Standard (Built-in, RS232, RS485, USB, LAN ( <b>LXI</b> 1.5) | 1           | None   | A           |
| 3kVA                            | 03          | Standard + IEEE/GPIB   | 2           | <b>GAC-PRO only:</b>                               |             |
| 6kVA <sup>*1</sup>              | 06          | <b>Frequency limit</b>                                       | <b>P/N:</b> | IEC61000-4-11                                      | B           |
| 9kVA <sup>*1</sup>              | 09          | AC mode, 1200Hz  | A           | IEC61000-4-13                                      | C           |
| <b>Front panel type</b>         | <b>P/N:</b> | AC + DC mode, 1200Hz   | B           | MIL-STD-1399-300 PART 1                            | D           |
| Full panel grey color           | A           | AC + DC mode, 5000Hz   | C           | IEC61000-4-11 & IEC61000-4-13                      | E           |
| Full panel black color          | B           | <b>Avionic standards</b>                                     | <b>P/N:</b> | IEC61000-4-11 & MIL-STD-1399-300 PART 1            | F           |
| Blank panel grey color          | C           | None   | 00          | IEC61000-4-13 & MIL-STD-1399-300 PART 1            | G           |
| Blank panel black color         | D           | <b>GAC-PRO only:</b>   | 01          | IEC61000-4-11 & IEC61000-4-13 &                    |             |
| <b>Input power</b>              | <b>P/N:</b> | RTCA/DO 160  | 02          | MIL-STD-1399-300 PART 1                            | H           |
| 85-265Vac 1-Phase <sup>*2</sup> | A           | MIL-STD 704  | 03          | <b>GAC only:</b>                                   |             |
| 170-265Vac 3-Phase              | B           | A350 (Airbus ABDCommunication interface)                     | 04          | Wave generator & harmonic analysis                 | I           |
| 342-528Vac 3-Phase              | C           | RTCA/DO 160 & MIL-STD 704                                    | 05          | IEC61000-4-11 & wave generator & harmonic analysis | J           |
|                                 |             | RTCA/DO 160 & A350 (Airbus ABD100.1.8.1)                     | 06          | IEC61000-4-13 & wave generator & harmonic analysis | K           |
|                                 |             | MIL-STD 704 & A350 (Airbus ABD100.1.8.1)                     |             | IEC61000-4-11 & IEC61000-4-13 &                    |             |
|                                 |             | RTCA/DO 160 & MIL-STD 704 & A350                             |             | wave generator & harmonic analysis                 | L           |
|                                 |             | (Airbus ABD100.1.8.1)  | 07          | <b>Additional options</b>                          | <b>P/N:</b> |
|                                 |             |  |             | None   | 00          |
|                                 |             |  |             | <b>Accessories</b>                                 | <b>P/N:</b> |
|                                 |             |  |             | None   | A           |

<sup>\*1</sup> Coming soon    <sup>\*2</sup> Available on 2kVA, 3kVA models only

# Programmable Power Supply Range

Powered by Precision



TDK-Lambda's series of programmable power supplies offer a wide range of integrated functions and features. Delivering high power density, excellent usability and reliability it is the best solution for many different applications in test & measurement and industrial control.

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