Genesys™

Programmable DC Power Supplies
5kW in 2U
Built in RS-232 & RS-485 Interface
Advanced Parallel Standard

Optional Interfaces:
IEEE488.2 SCPI (GPIB)
Isolated Analog Programming
LXI Compliant LAN

Genesys™ Family
GEN H  750W Half Rack
GEN 1U  750/1500W Full Rack
GEN 2U  3.3/5kW
GEN 3U  10/15kW

www.us.tdk-lambda.com/hp
The Genesys™ family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

**Features include:**

- **High Power Density** 5kW in 2U
- **Wide Range of popular worldwide AC inputs,** 3Ø (208VAC, 400VAC)
- **Active Power Factor Correction** (Three-Phase AC Input)
- **Output Voltage up to 600V, Current up to 600A**
- **Built-in RS-232/RS-485 Interface Standard**
- **Global Commands for Serial RS-232/RS-485 Interface**
- **Auto-Re-Start / Safe-Start: user selectable**
- **Last-Setting Memory**
- **High Resolution 16 bit ADCs & DACs**
- **Low Ripple & Noise**
- **Front Panel Lock selectable from Front Panel or Software**
- **Reliable Encoders for Voltage and Current Adjustment**
- **Constant Voltage/Constant Current auto-crossover**
- **Parallel Operation with Active Current Sharing; up to four identical units.**
- **Advanced Parallel Master / Slave. Total Current is Programmed and Measured via the Master.**
- **Independent Remote ON/OFF and Remote Enable/Disable**
- **External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)**
- **Reliable Modular and SMT Design**
- **19” Rack Mount capability for ATE and OEM applications**
- **Optional Interfaces**
  - Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)
  - IEEE 488.2 SCPI (GPIB) Multi-Drop
  - LXI Compliant LAN
  - USB Interface
- **LabView and LabWindow™ drivers**
- **Five Year Warranty**

Worldwide Safety Agency Approvals; CE Mark for LVD and EMC Regulation

**Applications**

Genesys™ power supplies have been designed to meet the demands of a wide variety of applications. System Designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus.

**Test Systems** using the IEEE-488 bus may achieve significant cost savings by incorporating the Optional IEEE Multi-Drop Interface for a Master and up to 30 RS-485 Multi-Drop Slaves. Then up to 30 Slaves may be equipped with the less expensive Optional RS-485 Multi-Drop (MD) interface.

**Higher power systems** can be configured with up to four 5kW modules. Each module is 2U with zero space between them (zero stack).

**Flexible configuration** is provided by the complete GenesysTM Family: 1U 750W Half-Rack, 1U 750W/1500W 2U 3.3kW/5kW Full-Rack. All are identical in Front Panel, Rear Panel Analog, and all Digital Interface Commands.

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

1. ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable encoder controls Output Voltage, Address, OVP and UVL settings.
4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
5. Reliable encoder controls Output Current, sets Baud rate and Advanced Parallel mode.
6. Current Display shows Output Current and displays Baud rate. Displays total current in Parallel Master/Slave Mode
7. Function/Status LEDs:
   - Alarm
   - Fine Control
   - Foldback Mode
   - Remote Mode
   - Output On
   - Preview Settings
8. Pushbuttons allow flexible user configuration
   - Coarse and Fine adjustment of Output Voltage/Current and Advanced Parallel Master or Slave
   - Preview settings and set Voltage/Current with Output OFF, Front Panel Lock
   - Parallel Master/Slave
   - Set OVP and UVL Limits
   - Set Current Foldback Protection
   - Go to Local Mode and select Address and Baud rate
   - Output ON/OFF and Auto/Safe Re-Start Mode

**Rear Panel Description**

1. Remote/Local Output Voltage Sense Connections.
2. DIP Switches select 0-5V or 0-10V Programming and other functions.
3. DB25 (Female) connector allows (Non-isolated) Analog Program and Monitor and other functions.
4. RS-485 OUT to other Genesys™ Power Supplies.
6. Output Connections: Rugged busbars (shown) for up to 100V Output; wire clamp connector for Outputs >100V.
7. Exit air assures reliable operation when zero stacked.
8. Input: 208 & 400VAC Three Phase, 50/60 Hz
   - AC Input Connector: PHOENIX CONTACT Power Combicon PC 6/... Series with strain relief.
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog, LAN or USB Interface.
## Genesys™ 5kW Specifications

### 1.0 MODEL

<table>
<thead>
<tr>
<th>GEN</th>
<th>8-600</th>
<th>10-500</th>
<th>18-310</th>
<th>20-250</th>
<th>30-170</th>
<th>40-125</th>
<th>60-65</th>
<th>80-65</th>
<th>100-50</th>
<th>150-34</th>
<th>300-17</th>
<th>600-8.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Rated Output voltage(*1)</td>
<td>V</td>
<td>8</td>
<td>10</td>
<td>16</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td>2.0</td>
<td>Rated Output Current(*2)</td>
<td>A</td>
<td>600</td>
<td>500</td>
<td>310</td>
<td>250</td>
<td>170</td>
<td>125</td>
<td>85</td>
<td>65</td>
<td>50</td>
<td>34</td>
</tr>
<tr>
<td>3.0</td>
<td>Rated Output Power</td>
<td>W</td>
<td>4800</td>
<td>5000</td>
<td>4960</td>
<td>5000</td>
<td>5100</td>
<td>5000</td>
<td>5100</td>
<td>5200</td>
<td>5000</td>
<td>5100</td>
</tr>
</tbody>
</table>

### 1.1 CONSTANT VOLTAGE MODE

| 2.0  | OVP/UVL Programming      | mV | 0.8    | 1      | 1.6   | 2     | 3      | 4      | 6      | 8      | 10     | 15     | 30      | 60      |
| 3.0  | Max load regulation      | mV | 8.2    | 6.5    | 7.4   | 8     | 9.5    | 11     | 14     | 17     | 20     | 23     | 25      | 50      | 95      |
| 4.0  | Ripple and noise p-p     | mV | 75     | 75     | 75    | 75    | 75     | 75     | 75     | 80     | 100    | 120    | 300     | 600     | 1200    |
| 5.0  | Remote sense compensation | V  | 5      | 5      | 5     | 5     | 5      | 5      | 5      | 5      | 5      | 5      | 5       |
| 6.0  | Temperature coefficient  | PPM/°C | 10PPM/°C of rated output voltage. |
| 7.0  | Temperature stability     | %   | 0.05% of rated output voltage over 8hrs interval following 30 minutes warm-up. |
| 8.0  | Warm-up drift            | mS | 15     | 50     | 80    | 100   | 200    |
| 9.0  | Up-prog. response time   | mS | 30     | 50     | 100   |
| 10.0 | Warm-up response time    | mS | 400    | 500    | 600   | 700   | 800    | 900    | 1000   | 1200   | 1500   | 2000   | 2500   | 3000   |

### 1.2 CURRENT MODE

| 2.0  | Max load regulation      | mA | 300    | 250    | 155   | 125   | 85     | 62.5   | 42.5   | 32.5   | 25    | 17    | 8.5    | 4.25    |
| 3.0  | Ripple and noise p-p     | mA | 1950   | 1800   | 1400  | 1000  | 460    | 300    | 150    | 120    | 90    | 60    | 30     |
| 4.0  | Ripple r.m.s            | mA | 10     | 10     | 10    | 10    | 10     | 10     | 12     | 15     | 25    | 35    | 120    |
| 5.0  | Ripple r.m.s            | mA | 208V~600: Less than ±0.25% of rated output current over 30 minutes following power On. |

### 1.3 PROTECTIVE FUNCTIONS

| 1.0  | OVP/UVL Programming      | mV | 0.5~12V | 1~19V | 1~24V | 2~36V | 2~44.1V | 5~66.15V | 5~88.2V | 5~110.25V | 5~165.3V | 5~330.7V | 5~661.5V |
| 2.0  | OVP type                |    | Inverter shut-down, manual reset by AC input recycle or by OUT button or by communication port command. |
| 3.0  | Warm-up drift           | %   | Less than ±0.5% of rated output current over 30 minutes following power On. |
| 4.0  | Warm-up drift           | %   | 8V~16V models: Less than ±0.5% of rated output current over 30 minutes following power On. |

### 1.4 ANALOG PROGRAMMING AND MONITORING

| 1.0  | Analog Programming and Monitoring |
| 2.0  | Readback Voltage |
| 3.0  | Readback Current |

### 1.5 FRONT PANEL

| 1.0  | Control functions        |
| 2.0  | Power Supply OK signal   |
| 3.0  | OVP/UVL Programming       |
| 4.0  | Remote sense compensation |

### 1.6 Interface RS-232/RS-485 or Optional GPIB / LAN Interface

| 1.0  | Voltage Programming (of Io rated) |
| 2.0  | Iout Voltage Programming |
| 3.0  | Remote Voltage Programming |

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*1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.

*2: Minimum current is guaranteed to maximum 0.4% of rated output current.

*3: For cases where conformance to various safety standards (UL, IEC, etc) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 208V models, and 380~415Vac (50/60Hz) for 3-Phase 400V models.

*4: For 3-Phase 208V models: At 208Vac input voltage, 3-Phase 400V, At 380Vac input voltage. With rated output power.

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

*6: 3-Phase 208V models: 170~265Vac, constant load. 3-Phase 400V models: 342~460Vac, constant load.

*7: From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.


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

*10: From 90% to 10% of Rated Output Voltage.

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

*12: For 8V16V models the ripple is measured from 2V to rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current.

*13: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.
**GenesySTM 5kW Specifications**

### 2.1 INPUT CHARACTERISTICS

<table>
<thead>
<tr>
<th>GEN</th>
<th>6-600</th>
<th>10-500</th>
<th>16-310</th>
<th>20-250</th>
<th>30-170</th>
<th>40-125</th>
<th>60-85</th>
<th>80-65</th>
<th>100-50</th>
<th>150-34</th>
<th>300-17</th>
<th>600-8.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage/freq. (*3)</td>
<td>VAC 3-Phase, 208Vac models: 170<del>265Vrms, 47</del>63Hz</td>
<td>8-600</td>
<td>10-500</td>
<td>16-310</td>
<td>20-250</td>
<td>30-170</td>
<td>40-125</td>
<td>60-85</td>
<td>80-65</td>
<td>100-50</td>
<td>150-34</td>
<td>300-17</td>
</tr>
<tr>
<td>2. Maximum Input current at 100% load</td>
<td></td>
<td>20.7</td>
<td>21.5</td>
<td>21.4</td>
<td>21</td>
<td>21.5</td>
<td>20.6</td>
<td>20.5</td>
<td>21.4</td>
<td>20.6</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>3-Phase, 208V models:</td>
<td></td>
<td>10.3</td>
<td>10.7</td>
<td>10.6</td>
<td>10.5</td>
<td>10.2</td>
<td>10.2</td>
<td>10.6</td>
<td>10.2</td>
<td>10.4</td>
<td>10.4</td>
<td>10.4</td>
</tr>
<tr>
<td>3-Phase, 400V models:</td>
<td></td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
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<td>0.84 at 100% load and 208V/380V/400V/115V</td>
</tr>
<tr>
<td>4. Power Factor (Typ)</td>
<td></td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
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<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
<td>0.84 at 100% load and 208V/380V/400V/115V</td>
</tr>
<tr>
<td>5. Efficiency at 200V and 380V</td>
<td></td>
<td>84</td>
<td>84</td>
<td>84</td>
<td>86</td>
<td>86</td>
<td>88</td>
<td>90</td>
<td>88</td>
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<tr>
<td>6. Efficiency at 170V and 342V</td>
<td></td>
<td>84</td>
<td>84</td>
<td>84</td>
<td>86</td>
<td>86</td>
<td>88</td>
<td>90</td>
<td>88</td>
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<tr>
<td>7. Hold up time (CV Mode)</td>
<td>ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
<td>5ms</td>
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<tr>
<td>8. Phase Imbalance</td>
<td>%</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
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<tr>
<td>9. Leakage Current</td>
<td>mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
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<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
<td>less than 3mA</td>
</tr>
</tbody>
</table>

### 2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation
   - Up to Four (4) identical units may be connected in Master/Slave Mode with two wire connection. In Advanced parallel feature, the current of Master Unit, multiplied by number of units connected in parallel, is made available on digital interface and displayed on front panel of Master unit. Remote analog current monitor of the Master is scaled to output current of the Master unit (only).

2. Series Operation
   - Possible (with external diodes), up to identical 2 units with total output not to exceed +/-600V from chassis ground.

### 2.3 ENVIRONMENTAL CONDITIONS

1. Operating temp
   - 0~50°C, 100% load.
2. Storage temp
   - -20~85°C
3. Operating humidity
   - 20~90% RH (non-condensing).
4. Storage humidity
   - 10~95% RH (non-condensing).
5. Vibration AND SHOCK
   - MIL-STD-810F, method 514.5, The EUT is fixed to the vibrating surface. Less than 20G, half sine, 11mSec. Unit is unpacked.
   - ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used
6. Altitude
   - Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000m, Non operating: 40000ft (12000m).

### 2.4 EMC

1. Applicable Standards
   - IEC1000-4-2, Air-disch.-8kV, contact disch.-4kV
   - IEC1000-4-3, 3kV
   - IEC1000-4-4, 2kV
   - IEC1000-4-5, 1kV line to line, 2kV line to ground
   - IEC1000-4-6, 3V
   - IEC1000-4-8, 1A/m
   - EN61000-4-11
   - EN55022A, FCC part 15-A, VCCI-A
   - EN55022A, FCC part 15-A, VCCI-A

### 2.5 SAFETY

1. Applicable standards
   - CE Mark, UL60950,EN60950 listed: Vout40V/Output is SELV, IEEE/Isolated analog are SELV. 40<Vout≤400V: Output is hazardous, IEEE/Isolated analog are SELV.
   - 400<Vout≤600V: Output is hazardous, IEEE/Isolated analog are not SELV.
2. Withstand voltage
   - Vout40V models: Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.
   - 40<Vout≤100V models: Input-Haz. Output: 2600VDC 1min, Input-SELV: 4242VDC 1min.
   - Hazardous Output.-SELV: 1900VDC 1min, Hazardous Output-Ground:1200VDC 1min. Input-Ground: 2828VDC 1min.
3. Insulation resistance
   - More than 100Mohm at 25°C , 70% RH.

### 2.6 MECHANICAL CONSTRUCTION

1. Cooling
   - Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)
   - WR 433mm / 16.65" H: 88mm / 3.46" D: 442.5mm / 17.42" (excluding connectors, encoders, handles, etc.)
3. Weight
   - 16 kg. / 35.2lbs
4. AC Input connector (with Protective Cover)
   - 3-Phase, 208V & 400V models, Power Combin PC 6-16/4-GF-10,16 series, with Strain relief.
5. Output connectors
   - 8V to 100V models: Bus-bars (hole Ø 10.5mm). 150V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-7.62

### 2.7 Warranty

1. Warranty
   - 5 years.

**Outline Drawing GenesySTM 5kW Units**

NOTE
1. Bus bars for 8V to 100V models (shown)
   - Wire clamp connector for 150V to 600V models
2. Plug connectors included with the power supply
3. Chassis slides mounting holes #10-32 marked A

GENERAL DEVICES P/N: C-300-S-116 or equivalent
**Genesys™ Power Parallel and Series Configurations**

**Parallel operation - Master/Slave:**
Active current sharing allows up to four identical units to be connected in an auto-parallel configuration for four times the output power. **In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.**

**Series operation**
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

**Remote Programming via RS-232 & RS-485 Interface**
Standard Serial Interface allows daisy-chain control of up to 31 power supplies on the same communication bus with built-in RS-232 & RS-485 Interface with or without Multi-Drop option.

**Programming Options (Factory installed)**

**New IEEE Multi-Drop Interface**
- Allows IEEE Master to control up to 30 (Multi-Drop equipped) slaves over RS-485 daisy-chain
- Only the Master needs to be equipped with IEEE Interface
- IEEE 488.2 SCPI Compliant
  - Program Voltage
  - Measure Voltage
  - Over Voltage setting and shutdown
  - Error and Status Messages

**New Multi-Drop Slave Option**
- Slaves need to be equipped with the MD Slave (RS-485) option

**Isolated Analog Programming**
- Four Channels to Program and Monitor Voltage and Current.
- Isolation allows operation with floating references in harsh electrical environments.
- Choose between programming with Voltage or Current.
- Connection via removable terminal block: Phoenix MC1.5/8-ST-3.81.
- Voltage Programming, user-selectable 0-5V or 0-10V signal.
  - Power supply Voltage and Current Programming Accuracy ±1%
  - Power supply Voltage and Current Monitoring Accuracy ±1.5%
- Current Programming with 4-20mA signal.
  - Power supply Voltage and Current Programming Accuracy ±1%
  - Power supply Voltage and Current Monitoring Accuracy ±1.5%

**LAN Interface**
- Meets all LXI-C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Fast Startup
- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Compatible with most standard Networks

**USB Interface**
- Allows Serial Connection to USB Port on Computer
- Serial commands same as (standard) RS-232/RS-485 Interface
Power Supply Identification / Accessories

How to order

<table>
<thead>
<tr>
<th>GEN 8 - 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Name</td>
</tr>
<tr>
<td>GEN 8-600</td>
</tr>
<tr>
<td>GEN 10-500</td>
</tr>
<tr>
<td>GEN 16-310</td>
</tr>
<tr>
<td>GEN 20-250</td>
</tr>
<tr>
<td>GEN 30-170</td>
</tr>
<tr>
<td>GEN 40-125</td>
</tr>
</tbody>
</table>

Factory Options
- IEMD
- MD
- IS510
- IS420
- LAN
- USB

Models 5kW

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage VDC</th>
<th>Output Current (A)</th>
<th>Output Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 8-600</td>
<td>0~8V</td>
<td>0~600</td>
<td>4800</td>
</tr>
<tr>
<td>GEN 10-500</td>
<td>0~10V</td>
<td>0~500</td>
<td>5000</td>
</tr>
<tr>
<td>GEN 16-310</td>
<td>0~16V</td>
<td>0~310</td>
<td>4960</td>
</tr>
<tr>
<td>GEN 20-250</td>
<td>0~20V</td>
<td>0~250</td>
<td>5000</td>
</tr>
<tr>
<td>GEN 30-170</td>
<td>0~30V</td>
<td>0~170</td>
<td>5100</td>
</tr>
<tr>
<td>GEN 40-125</td>
<td>0~40V</td>
<td>0~125</td>
<td>5000</td>
</tr>
</tbody>
</table>

Accessories

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

<table>
<thead>
<tr>
<th>Mode</th>
<th>RS-485</th>
<th>RS-232</th>
<th>RS-232</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Connector</td>
<td>DB-9F</td>
<td>DB-9F</td>
<td>DB-25F</td>
</tr>
<tr>
<td>Communication Cable</td>
<td>Shield Ground L=2m</td>
<td>Shield Ground L=2m</td>
<td>Shield Ground L=2m</td>
</tr>
<tr>
<td>Power Supply Connector</td>
<td>EIA/TIA-568A (RJ-45)</td>
<td>EIA/TIA-568A (RJ-45)</td>
<td>EIA/TIA-568A (RJ-45)</td>
</tr>
<tr>
<td>P/N</td>
<td>GEN/485-9</td>
<td>GEN/232-9</td>
<td>GEN/232-25</td>
</tr>
</tbody>
</table>

2. Serial link cable*
Daisy-chain up to 31 Genesys™ power supplies.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Supply Connector</th>
<th>Communication Cable</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-485</td>
<td>EIA/TIA-568A (RJ-45)</td>
<td>Shield Ground L=50cm</td>
<td>GEN/RJ45</td>
</tr>
</tbody>
</table>

* Included with power supply

Also available, Genesys™
- 1U Half Rack 750W
- 1U Full Rack 750W/1500W
- 2U Full Rack 3300W
- 3U Full Rack 10/15kW

TDK-Lambda