Programmable DC Power Supplies
5kW in 2U
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation
Optional Interface:
Compliant LAN
IEEE488.2 SCPI (GPIB) Multi-drop
Isolated Analog Programming

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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
- LabView® and LabWindows® drivers
- Five Year Warranty

**Applications**

Genesys™ power supplies have been designed to meet the demands of a wide variety of applications.

**Test & Measurement systems, Component Device Testing.**

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

**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 Genesys™ Family: 1U 750W Half-Rack, 1U 750W, 1500W and 2400W 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 baudrate and Advanced Parallel mode.
   Displays total current in Parallel Master/Slave Mode
7. Function/Status LEDs:
   • Alarm
   • Fine Control
   • Preview Settings
   • Foldback Mode
   • Remote Mode
   • Output On
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: 230VAC Single Phase (shown), 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 Interface or LAN Interface.
### Genesys™ 5kW Specifications

#### 1.0 MODEL Specifications in Blue are improved

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN</td>
<td>8-600</td>
</tr>
<tr>
<td>1. Rated output voltage(*)</td>
<td>V</td>
</tr>
<tr>
<td>2. Rated output Current(*)</td>
<td>A</td>
</tr>
<tr>
<td>3. Rated Output Power</td>
<td>W</td>
</tr>
</tbody>
</table>

#### 1.1 CONSTANT VOLTAGE MODE

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum regulation 0.05% of rated Vo(*)</td>
<td>mV</td>
</tr>
<tr>
<td>Maximum load regulation 0.1% of rated Vo(*)</td>
<td>mV</td>
</tr>
<tr>
<td>Ripple r.m.s 5Hz-1MHz</td>
<td>mA</td>
</tr>
<tr>
<td>Remote sense</td>
<td>mV</td>
</tr>
</tbody>
</table>

#### 1.2 CONSTANT CURRENT MODE

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum regulation 0.05% of rated Io(*)</td>
<td>mA</td>
</tr>
<tr>
<td>Maximum load regulation 0.1% of rated Io(*)</td>
<td>mA</td>
</tr>
<tr>
<td>Ripple r.m.s 1Hz</td>
<td>mA</td>
</tr>
<tr>
<td>Remote sense</td>
<td>mV</td>
</tr>
</tbody>
</table>

#### 1.3 PROTECTIVE FUNCTIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over Voltage Trip</td>
<td>V</td>
</tr>
<tr>
<td>Under Voltage Limit</td>
<td>V</td>
</tr>
<tr>
<td>Over Current Trip</td>
<td>A</td>
</tr>
<tr>
<td>Over Temperature</td>
<td>°C</td>
</tr>
</tbody>
</table>

#### 1.4 ANALOG PROGRAMMING AND MONITORING

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Programming</td>
<td>mV</td>
</tr>
<tr>
<td>Accuracy 0.05% of Vo Rated</td>
<td>mA</td>
</tr>
</tbody>
</table>

#### 1.5 FRONT PANEL

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control functions</td>
<td>mS</td>
</tr>
<tr>
<td>Display Voltage</td>
<td>4 digits, Accuracy: 0.05% of rated output Voltage ±1 count.</td>
</tr>
</tbody>
</table>

#### 1.6 Interface Specifications for the GENESYS Series with RS-232/RS-485 Or Optional GPIB/LAN Interface Installed

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>NOTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (0.02% of Vo Rated)</td>
<td>mA</td>
</tr>
<tr>
<td>Accuracy (0.05% of Vo Rated)</td>
<td>mA</td>
</tr>
</tbody>
</table>

#### 1.7 Re-start modes

- Automatic: start after a power failure or over voltage. Resume the last used output mode.
- Manual: power must be restored before control can resume.

#### 1.8 Additional Features

- Remote control: can be used to control the unit from a remote location.
- Communication: can be used to communicate with the unit via a USB or Ethernet connection.
- Monitoring: can be used to monitor the unit's performance.

### General Notes

- (*) Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
- (**) Minimum current is guaranteed to maximum 0.4% of rated output current.
- (***) Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
- (****) Maximum drop in Remote Sense.
- (*****) Constant load.
- (******) From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.
# General Specifications Genesys™ 5kW

## 2.1 INPUT CHARACTERISTICS

<table>
<thead>
<tr>
<th>GEN</th>
<th>8-600</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>200-25</th>
<th>300-17</th>
<th>400-13</th>
<th>500-10</th>
<th>600-8.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Phase, 208V models:</td>
<td>VAC</td>
<td>3-Phase, 400V models:</td>
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</tr>
<tr>
<td>1. Input voltage/freq. (*3)</td>
<td>GEN 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>200-25</td>
<td>300-17</td>
<td>400-13</td>
<td>500-10</td>
<td>600-8.5</td>
</tr>
<tr>
<td>3-Phase, 208V models:</td>
<td>170<del>265Vac, 47</del>63Hz</td>
<td>342<del>460Vac, 47</del>63Hz</td>
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</tr>
<tr>
<td>2. Maximum Input current at 100% load</td>
<td>A</td>
<td>1. Input voltage/freq. (*3) VAC</td>
<td>3-Phase, 208V models:</td>
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<tr>
<td>3-Phase, 400V models:</td>
<td>21 22 22 22 22 22 22 22 22 22 22 22 22 22 22</td>
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<tr>
<td>2.1 INPUT CHARACTERISTICS</td>
<td>3-Phase, 400V models:</td>
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<tr>
<td>2. Maximum Input current at 100% load</td>
<td>A</td>
<td>1. Input voltage/freq. (*3) VAC</td>
<td>3-Phase, 208V models:</td>
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<tr>
<td>3. Power Factor (Typ)</td>
<td>%</td>
<td>83 84 84 86 86 88 88 88 88 88 88 88 88 88 88</td>
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<tr>
<td>4. Efficiency (*4)</td>
<td>%</td>
<td>83 84 84 86 86 88 88 88 88 88 88 88 88 88 88</td>
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<tr>
<td>5. Inrush Current (*5)</td>
<td>A</td>
<td>3-Phase 208V models: Less than 50A</td>
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<tr>
<td>2.2 POWER SUPPLY CONFIGURATION</td>
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<tr>
<td>1. Parallel Operation</td>
<td>Up to 4 identical units in master/slave mode</td>
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<tr>
<td>2. Series Operation</td>
<td>Up to 2 identical units, with external diodes, 600V Max to Chassis ground</td>
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</tbody>
</table>

## 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 | MIL-810F, method 514.5, The EUT is fixed to the vibrating surface. |
6. Shock | Less than 20G, half sine, 11mSec. Unit is unpacked. |
7. Altitude | Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000m, Alternatively, derate maximum ambient temp. by 1ºC/100m above 2000m. |
8. RoHS Compliance | Complies with the requirements of RoHS directive. |

## 2.4 EMC

1. Applicable Standards |
2. ESD | IEC1000-4-2, Air-disch.:−4KV, contact disch.:−4KV |
3. Fast transients | IEC1000-4-4, 2KV |
4. Surge immunity | IEC1000-4-5, 3KV line to line, 2KV line to ground |
5. Conducted immunity | IEC1000-4-6, 3V |
6. Radiated immunity | IEC1000-4-3, 3V/m |
7. Magnetic field immunity | EN61000-4-8, 1A/m |
8. Voltage dips | EN61000-4-11 |

## 2.5 SAFETY

1. Applicable standards |
2. Interface classification |
3. Withstand voltage |
4. 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) | W: 423mm, H: 88mm, D: 442.5mm (excluding connectors, encoders, handles, etc.) |
3. Weight | 13 kg |
4. AC Input connector (with Protective Cover) |
5. Output connectors |

## 2.7 RELIABILITY SPECS

1. Warranty | 3 years. |

All specifications subject to change without notice.
**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.

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**Programming Options (Factory installed)**

**Digital Programming via IEEE Multi-Drop Interface**
P/N: IEEE
- Allows IEEE Master to control up to 30 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
- Program Current
- Measure Current
- Over Voltage setting and shutdown
- Current Foldback shutdown
- Error and Status Messages

**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**
P/N: LAN
- Compliant to Class C
- Meets all LXI-C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Compatible with most standard Networks
- TCP / UDP Socket Programming
- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Fast Startup
### Power Supply Identification / Accessories How to order

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage (V)</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>

#### Factory option

**RS-232/RS-485 Interface built-in Standard**

**GPIB Interface**

**Voltage Programming Isolated Analog Interface**

**Current Programming Isolated Analog Interface**

**LAN Interface (Complies with LXI Class C)**

#### Accessory

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>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>

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

### 5kW | GENESYS™

*Also available, Genesys™*

1U Half Rack 750W
1U full Rack 750W/1500W/2400W
2U full Rack 3300W
Outline Drawing Genesys™ 5kW Units

3 Phase Input Connector
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
GLOBAL NETWORK

TDK-Lambda

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