**Genesys™**

Programmable DC Power Supplies
750W/1500W in 1U
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation

Optional Interface:
LXI 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: 1500W in 1U
- Wide Range Input (85 - 265Vac Continuous, single phase, 47/63Hz)
- Active Power Factor Correction (0.99 typical)
- Output Voltage up to 600V, Current up to 200A
- Built-in RS-232/RS-485 Interface Standard
- Last-Setting Memory
- Global Commands for Serial RS-232/RS-485 Interface
- Front Panel Lock selectable from Front Panel or Software
- High Resolution 16 bit ADCs & DACs
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Advanced Parallel reports total current up to four identical units
- 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 Mounted 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
  - Compliant LAN Interface
- LabView® and LabWindows® 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.
Common controls are shared all Genesys™ Series.

**Test and Measurement**
Last-Setting memory simplifies test design and requires no battery backup. Built-in RS-232/RS-485 gives maximum system flexibility along with 0-5V and 0-10V, selectable analog programming. Wide range of available inputs allows testing of many different devices.

**Semiconductor Burn-in**
Safe-Start may be ENABLED to re-start at Output OFF to protect load. Wide range input (85-265Vac) with Active Power Factor correction rides through input transients easily.

**Component Test**
High power density, zero stacking and single wire parallel operation give maximum system flexibility.

**Laser Diode**
OVP is directly set on Voltage Display, assuring accurate protection settings. Current Limit Fold Back assures load is protected from current surges.

**Heater Supplies**
Smooth, reliable encoders enhance front panel control. Remote analog programming is user selectable 0-5V or 0-10V.

**RF Amplifiers and Magnets**
Robust design assures stable operation under a wide variety of loads. High linearity in voltage and current mode.
**Front Panel Description**

1. AC ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable encoder controls Output Voltage and sets Address.
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.
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 Lockout
   - Set OVP and UVL Limits
   - Set Current Foldback
   - Local/Remote Mode and select Address and Baudrate
   - Output ON/OFF and Auto-Start/Safe-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 for up to 60V Output; wire clamp connector for Outputs >60V.
7. Exit air assures reliable operation when zero stacked.
8. Wide-Range Input 85-265VAC continuous, 47/63Hz with Active Power Factor Correction (0.99 typical).
   - AC Input Connector: 750W (IEC320), 1500W (screw terminal—shown).
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.
### Genesys™ 750W/1500W Specifications

#### 1.0 MODEL

<table>
<thead>
<tr>
<th>GEN 6-1000</th>
<th>GEN 8-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Rated output voltage (*1)</td>
<td>6</td>
</tr>
<tr>
<td>2. Rated Output Current (*2)</td>
<td>125</td>
</tr>
<tr>
<td>3. Ripple and noise p-p (50/60Hz)</td>
<td>300</td>
</tr>
<tr>
<td>4. Temp. coefficient</td>
<td>70PPM/°C</td>
</tr>
<tr>
<td>5. Over Temp Protection</td>
<td>User selectable, latched or non latched</td>
</tr>
<tr>
<td>6. Remote Supply OK signal</td>
<td>TTL (high V&gt;5V, low 0V, Fail 500mV)</td>
</tr>
<tr>
<td>7. Remote Voltage Programming (16 bit)</td>
<td>28.5</td>
</tr>
<tr>
<td>8. Remote Current Programming (16 bit)</td>
<td>30.5</td>
</tr>
<tr>
<td>9. Remote Sense Compensation/line V</td>
<td>1</td>
</tr>
<tr>
<td>10. Remote/Local analog control indicator</td>
<td>Open collector, Local: Open, Remote: On. Maximum voltage: 30V, maximum sink current: 5mA.</td>
</tr>
<tr>
<td>11. Remote/Local analog control By voltage/current pair, or Open/Short: 0<del>0.6V or short: Remote, 2</del>15V or open: Local.</td>
<td></td>
</tr>
<tr>
<td>12. Local/Remote analog control By electrical signal or Open/Short: 0<del>0.6V or short: Remote, 2</del>15V or open: Local.</td>
<td></td>
</tr>
</tbody>
</table>

#### 1.1 CONSTANT VOLTAGE MODE

| MAX. line regulation (0.01% of Io+ 2mA)(*4) mA | 2.6 | 2.8 |
| Ripple and noise p-p (50/60Hz) mA | 60 | 50 |
| Remote sense compensation/line V | 1 |

#### 1.2 CONSTANT CURRENT MODE

| MAX. line regulation (0.01% of Io+ 2mA)(*4) mA | 12 | 11 |
| Max.load regulation (0.02% of Io+5mA)(*5) mA | 25 | 23 |
| Remote sense compensation/line V | 1 |

#### 1.3 PROTECTIVE FUNCTIONS

1. OCP 0~105% Constant Current  
2. OCP Foldback  
3. OVP type Inverter shut-down, manual reset by AC input recycle or by OUT button or by communication port  
4. OVP trip point 0.5~7.5V 0.5~10V 1~15V 1~24V 2~36V 2~44V 5~57V 5~66V 5~88V 5~110V 5~165V 5~330V  
5. Over Temp Protection User selectable, latched or non latched  

#### 1.4 ANALOG PROGRAMMING AND MONITORING

1. Vout Voltage Programming 0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-0.5% of rated Vout.  
2. Vout Resistor Programming 0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1% of rated Vout.  
3. Iout Resistor Programming 0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1.5% of rated Iout.  
4. Iout Voltage Programming 0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-1% of rated Iout.  

#### 1.5 FRONT PANEL

1. Control functions  
2. Display  
3. Indications  

#### 1.6 Interface RS-232/485-48 or Optional GPIB / LAN Interface

<table>
<thead>
<tr>
<th>Model</th>
<th>V</th>
<th>6</th>
<th>8</th>
<th>12</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>150</th>
<th>300</th>
<th>600</th>
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</thead>
<tbody>
<tr>
<td>1. Remote Voltage Programming (16 bit) Resolution (5% of Vrated) mA</td>
<td>0.12</td>
<td>0.16</td>
<td>0.25</td>
<td>0.30</td>
<td>0.35</td>
<td>0.40</td>
<td>0.45</td>
<td>0.50</td>
<td>0.55</td>
<td>0.60</td>
<td>0.65</td>
<td>0.70</td>
<td>0.75</td>
<td>0.80</td>
<td>0.85</td>
</tr>
<tr>
<td>Accuracy of 5% of Vrated Output Voltage (+1) %</td>
<td>0.05%</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Remote Current Programming (16 bit) Resolution (5% of Irated) mA</td>
<td>2.00</td>
<td>1.80</td>
<td>1.60</td>
<td>1.40</td>
<td>1.20</td>
<td>1.00</td>
<td>0.80</td>
<td>0.60</td>
<td>0.40</td>
<td>0.20</td>
<td>0.10</td>
<td>0.05</td>
<td>0.03</td>
<td>0.02</td>
<td>0.01</td>
</tr>
<tr>
<td>Accuracy of 5% of Irated Output (+1) %</td>
<td>0.05%</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Readback Voltage Resolution of Vrated mA</td>
<td>0.12</td>
<td>0.16</td>
<td>0.25</td>
<td>0.30</td>
<td>0.35</td>
<td>0.40</td>
<td>0.45</td>
<td>0.50</td>
<td>0.55</td>
<td>0.60</td>
<td>0.65</td>
<td>0.70</td>
<td>0.75</td>
<td>0.80</td>
<td>0.85</td>
</tr>
<tr>
<td>Accuracy of 0.5% of Vrated mA</td>
<td>3</td>
<td>4</td>
<td>6.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### 4.4 Readback Current

| Resolution of Irated mA | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Accuracy of 5% of Irated mA | 0.05% |

#### 5.0 VUP/UP Programming

| Resolution of Vrated mA | 6 | 8 | 12 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 300 | 600 |
| Accuracy of 0.5% of Vrated mA | 0.05% | 0.03% | 0.02% | 0.01% | 0.005% | 0.003% | 0.002% | 0.001% | 0.0005% | 0.0003% | 0.0002% | 0.0001% | 0.00005% | 0.00003% | 0.00002% | 0.00001% |

*1: Minimum voltage is guaranteed to maximum 0.2% of Vrated.  
*2: Minimum current is guaranteed to maximum 0.4% of Irated.  
*3: OCP: 0~105% Constant Current  
*4: OCP Foldback  
*5: OVP type Inverter shut-down, manual reset by AC input recycle or by OUT button or by communication port  
*6: OVP trip point 0.5~7.5V 0.5~10V 1~15V 1~24V 2~36V 2~44V 5~57V 5~66V 5~88V 5~110V 5~165V 5~330V  
*7: Over Temp Protection User selectable, latched or non latched  
*8: Remote Supply OK signal TTL (high V>5V, low 0V, Fail 500mV)  
*9: Remote Voltage Programming (16 bit)  
*10: Remote Current Programming (16 bit)  
*11: Remote Sense Compensation/line V  
*12: Local/Remote analog control indicator Open collector, Local: Open, Remote: On. Maximum voltage: 30V, maximum sink current: 5mA.  
*13: Local/Remote analog control By electrical signal or Open/Short: 0~0.6V or short: Remote, 2~15V or open: Local.  

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**TDK-Lambda**

Genesys™ 750W/1500W Specifications

<table>
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<th>Specifications in Blue are improved</th>
<th>750W</th>
<th>1500W</th>
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**Genesys™**

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</tbody>
</table>
General Specifications Genesys™ 750W/1500W

2.1 INPUT CHARACTERISTICS
1. Input voltage/freq. (*1) 85–265Vac continuous, 47–63Hz, single phase
2. Power Factor 0.99 @100/200Vac, rated output power.
3. EN61000-3-2,3 compliance Complies with EN61000-3-2 class A and EN61000-3-3 at 20–100% output power.
4. Input current 100/200Vac 750W: 10.5A / 5A, 1500W: 21A / 11A
5. Inrush current 100/200Vac 750W: Less than 25A, 1500W: Less than 50A
6. Hold-up time More than 20mS, 100Vac, at 100% load.

2.2 POWER SUPPLY CONFIGURATION
1. Parallel Operation Up to 4 units in master/slave mode with single wire current balance connection
2. Series Operation Up to 2 units, with external diodes. 600V Max to Chassis ground

2.3 ENVIRONMENTAL CONDITIONS
1. Operating temp 0–50°C, 100% load.
2. Storage temp -20–70°C
3. Operating humidity 30–90% RH (non-condensing).
4. Storage humidity 10–95% RH (non-condensing).
5. Vibration MIL-810E, method 514.4, test cond. I-3.3.1. The EUT is fixed to the vibrating surface.
6. Shock Less than 20G, half sine, 11mSec. Unit is unpacked.
7. Altitude Operating: 10000ft (3000m), Derat output current by 2%/100m above 2000m, Non operating: 40000ft (12000m).

2.4 EMC
1. Applicable Standards:
2. ESD IEC1000-4-2, Air-disch. -8KV, contact disch. -4KV
3. Surge immunity IEC1000-4-5, 1KV line to line, 2KV line to ground
4. Conducted immunity IEC1000-4-6, 3V
5. Radiated immunity IEC1000-4-3, 3V
6. Conducted emission EN55022B, FCC part 15J-B, VCCI-B
7. Radiated emission EN55022A, FCC part 15-A, VCCI-A
8. Voltage dips EN61000-4-1
10. Radiated emission EN55022A, FCC part 15-A, VCCI-A
11. Conducted emission EN55022B, FCC part 15-B, VCCI-B

2.5 SAFETY
1. Applicable standards: UL 60950-1, CSA22.2 No.60950-1, IEC 60950-1, EN 60950-1
2. Interface classification
Models with Vout 50V: Output is SELV, all communication/control interfaces (RS232/485, IEEE, Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are SELV.
Models with 60V Vout 400V: Output is Hazardous, communication/control interfaces: RS232/485, IEEE, Isolated Analog, LAN, Remote Programming and Monitoring (pins 1-3, pins 21-25) are Hazardous.
Models with 400V Vout 600V: Output is Hazardous, all communication/control interfaces (RS232/485, IEEE, Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are Hazardous.

3. Withstand voltage
60V Vout 150V models: Insulated-Output (SELV): 4242VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.
60V Vout 150V models: Insulated-Output (Hazardous): 3425VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.
300V Vout 600V models: Input-Output (Hazardous): 3490VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.

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: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.)
3. Weight 750W: 7Kg (15 Lbs) 1500W: 8.5Kg (18Lbs)
4. AC Input connector 750W: IEC320 AC Inlet. 1500W: Screw terminal block, Phoenix P/N: FRONT-4-H-7/6, with strain relief
5. Output connectors 6V to 60V models: Bus-bars (hole Ø 8.5mm), 80V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-7/6

2.7 RELIABILITY SPECS
1. Warranty 5 years.

*1: For cases where conformance to various safety standards (UL, IEC etc.) is required, to be described as 100-240Vac (50/60Hz).

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 chain control of up to 31 power supplies on the same bus with built-in RS-232 & RS-485 Interface.

**Programming Options (Factory installed)**

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

**Isolated Analog Programming**
- Voltage Programming, user-selectable 0-5V or 0-10V signal. Power supply Voltage and Current Programming Accuracy ±1%
- Current Programming with 4-20mA signal. Power supply Voltage and Current Monitoring Accuracy ±1.5%

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

**GEN 600 - 2.6 - -**

**Factory Options**

- AC Cable option is 750W only
- Option: IEEE IS510 GB - United Kingdom
- IS420 J - Japan
- LAN I - Middle East
- U - North America

**Models 750/1500W**

<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>GEN6-100</td>
<td>0~6V</td>
<td>0~100</td>
<td>600</td>
</tr>
<tr>
<td>GEN6-200</td>
<td>0~8V</td>
<td>0~200</td>
<td>1200</td>
</tr>
<tr>
<td>GEN8-90</td>
<td>0~90</td>
<td></td>
<td>720</td>
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<tr>
<td>GEN8-180</td>
<td>0~180</td>
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<td>1440</td>
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<td>GEN12.5-60</td>
<td>0~12.5V</td>
<td>0~60</td>
<td>750</td>
</tr>
<tr>
<td>GEN12.5-120</td>
<td>0~120</td>
<td>0~120</td>
<td>1500</td>
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<tr>
<td>GEN20-38</td>
<td>0~20V</td>
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<td>0~76</td>
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<td>GEN30-25</td>
<td>0~30V</td>
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<tr>
<td>GEN40-19</td>
<td>0~40V</td>
<td>0~19</td>
<td>760</td>
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<tr>
<td>GEN40-38</td>
<td>0~40V</td>
<td>0~38</td>
<td>1520</td>
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</table>

**Factory option**

- P/N GEN/485-9
- IS510 GPIB Interface
- IS420 Voltage Programming Isolated Analog Interface
- LAN Current Programming Isolated Analog Interface
- LAN Interface (Complies with Class C)

**AC Cords sets (750W only)**

<table>
<thead>
<tr>
<th>Region</th>
<th>Europe</th>
<th>United Kingdom</th>
<th>Japan</th>
<th>Middle East</th>
<th>North America</th>
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</thead>
<tbody>
<tr>
<td>Output Power 750W</td>
<td>10A/250Vac L=2m INTL 7/VII IEC320-C13</td>
<td>10A/250Vac L=2m BS1363 IEC320-C13</td>
<td>13A/125Vac L=2m IEC320-C13</td>
<td>10A/250Vac L=2m SI-32 IEC320-C13</td>
<td>13A/125Vac L=2m NEMA 5-15P IEC320-C13</td>
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<tr>
<td>Wall Plug figures</td>
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</tr>
<tr>
<td>Power Supply Connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part Number**

- P/N: GEN/E
- P/N: GEN/GB
- P/N: GEN/J
- P/N: GEN/I
- P/N: GEN/U

**Accessories**

1. **Communication cable**

   RS-232/RS-485 Cable is used to connect the power supply to the PC Controller.

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

2. **Serial link cable**

   Daisy-chain up to 31 GenesySTM 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
Outline Drawing Genesys™ 750W/1500W Units

MODEL 750W IEC INLET
NOTE
1. Bus bars for 6v to 60v models (shown)
   Wire clamp connector for 80V 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
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