DC Power Supplies, Regulated—Discontinued

**API 9046**

**Power:** 115 VAC or 230 VAC

**Output:** 5 VDC to 32 VDC

- **Wide Range of Output Voltages**
- **High Output Capacity**
- **Conservative Design for High Reliability**
- **Power Indicator LED**
- **Power Passive 4-20 mA Sensors**
- **Easy to Install Plug-in Design**

**Specifications**

**Input Voltage**
Standard: 115 VAC ±10%, 50/60 Hz, 2.5 W max.
A230 option: 230 VAC ±10%, 50/60 Hz, 2.5 W max.

**Indicator**
Red LED power indicator

**DC Output Ranges**
See table below right

**Regulation**
Line: Less than ±0.5% of output for \( V_{in} \) ±10%
Load: Less than ±3% for load range of 10 to 100% of rating

**Output Adjustment**
Potentiometer for fine output adjustment

±10% of span adjustment range typical

**Ripple and Noise**
Less than 5 mVrms ripple and noise

**Ambient Temperature Range**
−10°C to +60°C operating ambient

**Housing and Sockets**
IP 40, requires installation in panel or enclosure
Socket mounts to 35 mm DIN rail or can be surface mounted
Use API 008 or API 008 FS socket

**Description**
The API 9046 power supplies are designed to provide DC power to two-wire transmitters, panel meters, or any device requiring a source of well-regulated DC voltage.

The API 9046 output voltage is factory selected and may be fine-tuned by adjusting the top-accessible fine adjust potentiometer. The red LED provides a visual indication that the unit is functioning.

The API 9046 features short-circuit protection for the output. The transformer secondary is full-wave rectified, filtered and regulated by an IC regulator which also provides output short-circuit protection.

The designs include high-rated temperature components, increased regulator heat sinking for excellent reliability, and greater output current capabilities than competitive designs.

Input voltages of 115 VAC or 230 VAC are factory configured via a dual primary power transformer.

The API 9046 plugs into an industry standard 8-pin socket sold separately. The convenient plug-in design simplifies installation and wiring.

**Instructions**

**Precautions**

**WARNING!** All wiring must be performed by a qualified electrician or instrumentation engineer. See diagram for terminal designations and wiring examples. Consult factory for assistance.

**WARNING!** Avoid shock hazards! Turn power off before connecting or disconnecting wiring, or removing or installing module.

**Précutions**

**ATTENTION!** Tout le câblage doit être effectué par un électricien ou ingénieur en instrumentation qualifié. Voir le diagramme pour désignations des bornes et des exemples de câblage. Consulter l’usine pour assistance.

**ATTENTION!** Éviter les risques de choc! Fermez l’alimentation électrique avant de connecter ou de déconnecter le câblage, ou de retirer ou d’installer le module.

Use API 008 or finger-safe API 008 FS socket.

**Power Input**
Power supplies operate on 115 VAC.
Models with A230 option operate on 230 VAC.

**Power Output**
Polarity must be observed when connecting the power output to the load.

**Calibration**
The API 9046 is factory calibrated and should not require adjustment in the field.

1. Wire unit as shown, apply power, and allow a 20 minute warm-up time.
2. Using an accurate voltmeter, adjust the top accessible Output Adj. potentiometer to the desired output voltage.

**Option**—add to end of model number

U Conformal coating for moisture resistance

**Accessories**—order as separate line item

API 008—8-pin socket
API 008 FS—8-pin finger-safe socket

API CLP1 Module hold-down spring for high vibration or mobile applications

**Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Max. Current</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>API 9046-05</td>
<td>5 VDC</td>
<td>250 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-06</td>
<td>6 VDC</td>
<td>200 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-09</td>
<td>9 VDC</td>
<td>150 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-10</td>
<td>10 VDC</td>
<td>140 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-12</td>
<td>12 VDC</td>
<td>125 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-15</td>
<td>15 VDC</td>
<td>100 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-18</td>
<td>18 VDC</td>
<td>85 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-24</td>
<td>24 VDC</td>
<td>75 mA</td>
<td>115 VAC</td>
</tr>
<tr>
<td>API 9046-28</td>
<td>28 VDC</td>
<td>60 mA</td>
<td>115 VAC</td>
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<tr>
<td>API 9046-32</td>
<td>32 VDC</td>
<td>50 mA</td>
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**Accessories**

- API CLP1
- API 008—8-pin socket
- API 008 FS—8-pin finger-safe socket
- API 008 FS—300 V Rating
- API 008 FS—600 V Rating

**Socket Top View**

- DC voltage output
- Keydown when panel mounting
- 115 VAC or A230 versions 230 VAC