

**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  
 Consult factory for other output voltages

#### Regulation

Line: Less than ±0.5% of output for  $V_{in} \pm 10\%$   
 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

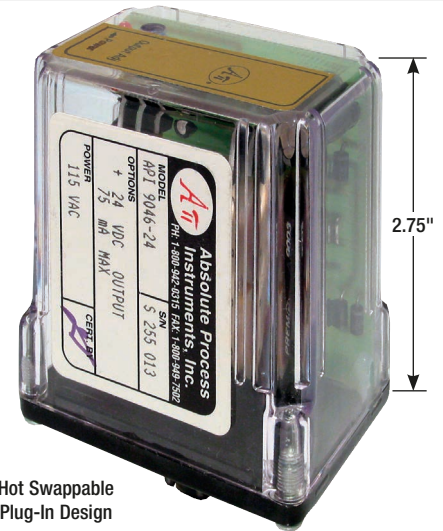
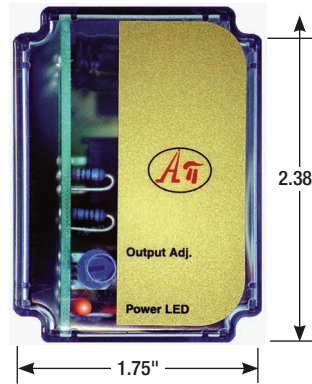
The API 9046 power supplies are designed to provide DC power to two-wire transmitters, panel meters, or any device requiring a source of well-regulated DC voltage.

The API 9046 output voltage is factory selected and may be fine-tuned by adjusting the top-accessible fine adjust potentiometer. The red power 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.



Hot Swappable Plug-In Design

**Quick Link**  
[api-usa.com/9046](http://api-usa.com/9046)

Model	Voltage	Max. Current	Power
API 9046-05	5 VDC	250 mA	115 VAC
API 9046-06	6 VDC	200 mA	115 VAC
API 9046-09	9 VDC	150 mA	115 VAC
API 9046-10	10 VDC	140 mA	115 VAC
API 9046-12	12 VDC	125 mA	115 VAC
API 9046-15	15 VDC	100 mA	115 VAC
API 9046-18	18 VDC	85 mA	115 VAC
API 9046-24	24 VDC	75 mA	115 VAC
API 9046-28	28 VDC	60 mA	115 VAC
API 9046-32	32 VDC	50 mA	115 VAC

Model	Voltage	Max. Current	Power
API 9046-05-A230	5 VDC	250 mA	230 VAC
API 9046-06-A230	6 VDC	200 mA	230 VAC
API 9046-09-A230	9 VDC	150 mA	230 VAC
API 9046-10-A230	10 VDC	140 mA	230 VAC
API 9046-12-A230	12 VDC	125 mA	230 VAC
API 9046-15-A230	15 VDC	100 mA	230 VAC
API 9046-18-A230	18 VDC	85 mA	230 VAC
API 9046-24-A230	24 VDC	75 mA	230 VAC
API 9046-28-A230	28 VDC	60 mA	230 VAC
API 9046-32-A230	32 VDC	50 mA	230 VAC

#### 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



API 008 FS  
300 V Rating



API 008  
600 V Rating



API CLP1

### 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.

#### Précautions

**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 et 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.

