

# PS24

## Adjustable External Power Supply

The PS24 Series low voltage power supplies will accept a 24 VAC input voltage from a Class 2 transformer and convert it into an adjustable 1.5 to 26 VDC regulated output voltage. The PS24 is able to be configured in either Half or Full Wave mode by using the integral jumper shunt selection switches. An onboard potentiometer is available to allow for field adjustment of the 24 VDC factory set voltage to any voltage from 1.5 to 26 VDC. The standard unit is shipped in a standard snap track mounting configuration to allow for easy mounting inside of your electrical panel or piece of equipment.

In applications where a Pilot Duty or remote relay is required, the A/DO008 transorb can be placed across the coil of the relay to snub electrical spikes when the relays are de-energized. An external transorb may not be required if the relay and PS24 power supply is mounted within the same control panel.

**Applications:** DC Power Supply, Transducer Supply, Test Bench Supply, Analog Signal Simulator, DC Power Regulation from Control Transformer

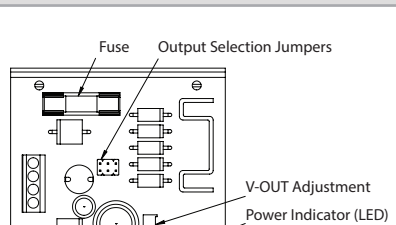
**The ACI PS24 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's**

## PRODUCT SPECIFICATIONS

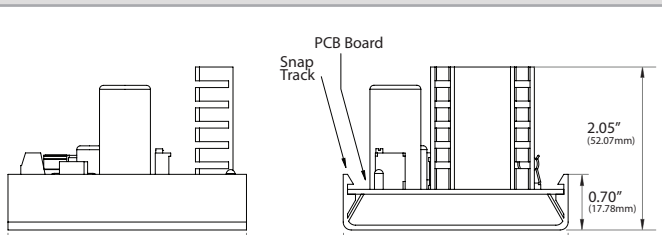
| | |
|---|---|
| **Input Voltage:** | 22 to 26 VAC, 50/60 Hz (Class 2 Transformer w/ 24 VAC Secondary) or 30 to 36 VDC |
| **VA Requirements:** | 1.5 VA minimum (No Load); Additional VA required must be determined by load size |
| **Rectification:** | Half-Wave (Default) or Full Wave (Jumper Selectable) |
| **Output Voltage:** | Factory set at 24 VDC; Adjustable from +1.5 to 26 VDC |
| **Output Current:** | See Figure #1 graphs for Output Current vs Ambient Operating Temperature |
| **Overload Protection:** | Internal Current Limiting Thermal Protection |
| **Ground Loop Protection:** | Fused, 3.15A/250 VAC, 5 x 20 mm, fast acting (Littelfuse 02173.15 MXP or equivalent) |
| **Status Indication:** | Red LED Indicates power on status |
| **Operating Temperature Range:** | 32 to 158ºF (0 to 70ºC) |
| **Operating Humidity Range:** | 5 to 95%, non-condensing |
| **Storage Temperature Range:** | 50 to 95ºF (10 to 35ºC) |
| **Storage Humidity Range:** | 30 to 60% |
| **Connections \| Wire Size:** | Screw Terminal Blocks \| 14 (1.31 mm²) to 22 AWG (0.129 mm²) |
| **Terminal Block Torque Rating:** | 4 lb-in (0.5 Nm) maximum |
| **Snap Track Material \| Flammability Rating:** | Polyvinyl Chloride (PVC) \| UL94 V-0 |
| **Product Dimensions (L x W x H):** | 3.10" (78.8 mm) x 2.88" (73.2 mm) x 2.05" (52.1 mm) |
| **Product Weight:** | 0.14 lbs. (0.064 kg) |
| **Agency Approvals:** | CE, RoHS2, WEEE |

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## DIMENSIONAL DRAWING




**Front View**




**Side Views**

## STANDARD ORDERING

Model # Example: A/PS24-24V-S -OR- 144322

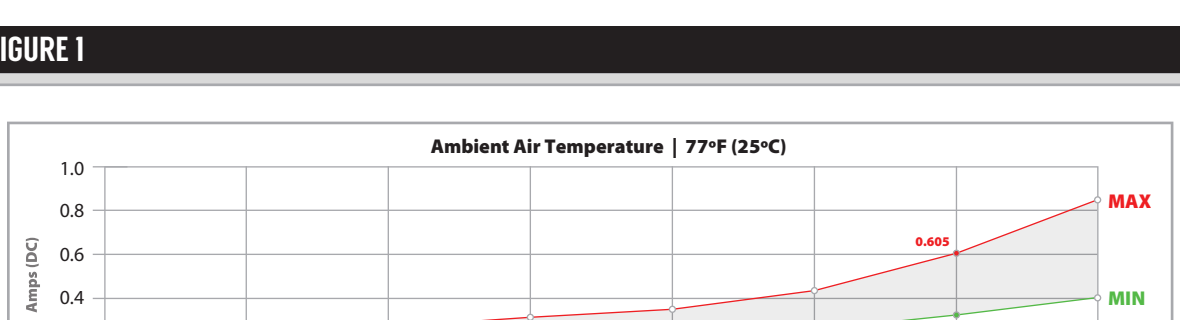
| Model # | Item # | Description |
|---|---|---|
| **A/PS24-24V-S** | 144322 | 24VDC Power Supply_Snap Track |

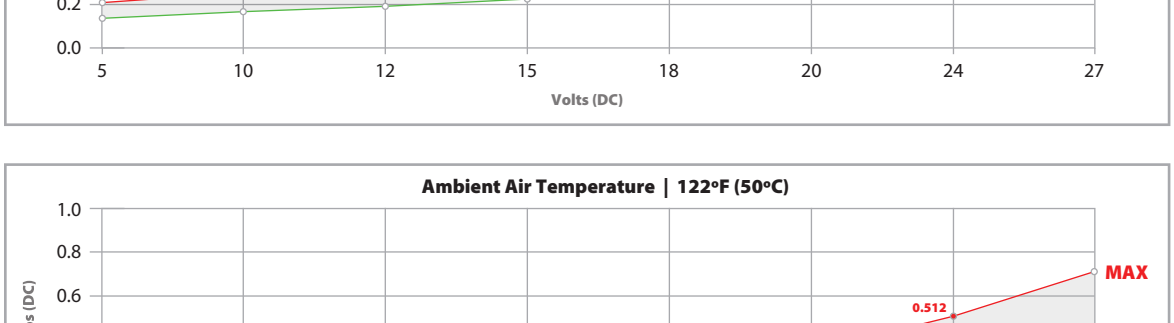
## ACCESSORIES ORDERING

Model # Example: A/DO008 -OR- 142583

| Model # | Item # | Description |
|---|---|---|
| **A/DO008** | 142583 | Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W |
| **A/DRC 3.1 X 2.88** | 145395 | Snap Track to DIN Rail Adapter |

## FIGURE 1




**Note:** The output current was tested at the ambient temperature and voltages provided in Figure 1