

I-PS24 Adjustable External Power Supply (1.5 to 26 VDC)

The I-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 I-PS24 is able to be configured in either Half or Full Wave mode by using the integral jumper shunt selection switches. An on-board 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 I-PS24 power supply is mounted within the same control panel.

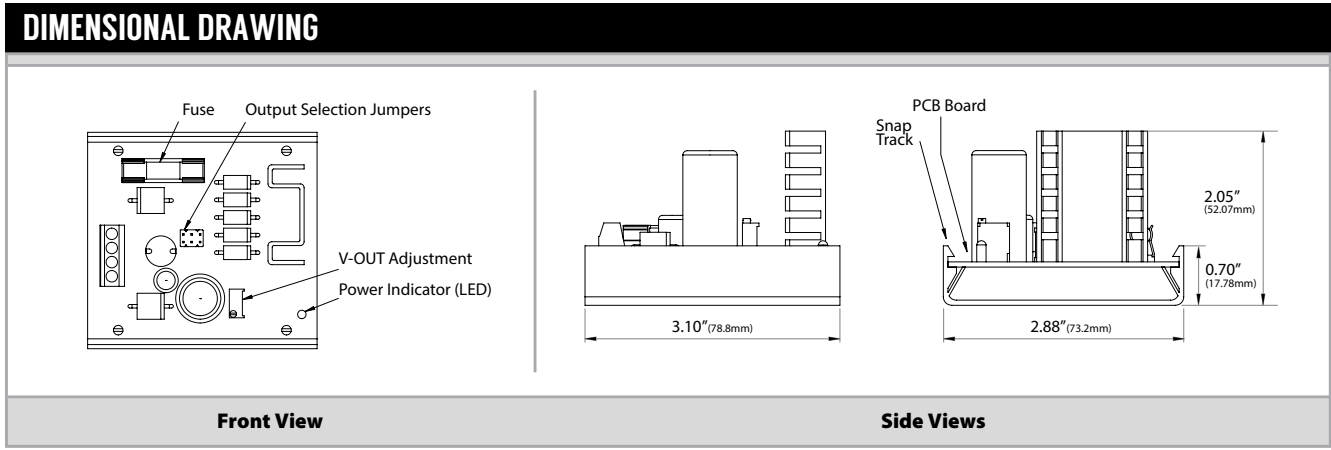
Applications: DC Power Supply, Transducer Supply, Test Bench Supply, Analog Signal Simulator, DC Power Regulation from Control Transformer

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 (See Figure 1)
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 158°F (0 to 70°C)
Operating Humidity Range:	5 to 95%, non-condensing
Storage Temperature Range:	50 to 95°F (10 to 35°C)
Storage Humidity Range:	30 to 60%
Connections Wire Size:	Screw Terminal Blocks 14 (1.31 mm ²) to 22 AWG (0.129 mm ²)
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 lb (0.064 kg)
Agency Approvals:	CE, RoHS2, WEEE

Warranty: Limited two years





STANDARD ORDERING

Model #	Description
I-PS24	24 VDC Power Supply_Snap Track (factory default: Half-Wave mode)

ACCESSORIES ORDERING

Model #	Description
I-DO008	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W

FIGURE 1

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

