

- Compact and encapsulated. **Only about one cubic inch / 18 cubic centimeters in size.**
- 21- 36 VAC / 28-50 VDC input range
- 24 VDC @ 450 mA output at maximum input voltage of 36VAC/50VDC.
- Allows use of 24 VDC powered devices in low voltage AC systems as well as step down of higher voltage DC supplies up to 50VDC.
- Low output noise
- Wide operating temperature range of -40 to 70 C operation
- Input voltage is fused and output has continuous short circuit protection.
- DC power present diagnostic LED
- Low Cost



DESCRIPTION

The Model 25A is a low voltage AC to DC switching power supply. It is encapsulated and very compact at around 1 cubic inch or 18 cubic centimeters in size. The entire unit can be dropped into any wiring conduit box for installation. It outputs 24VDC at 450 mA with an input voltage of 21 – 36 VAC or 28 – 50 VDC while operating from -40 to 70 C. This allows 24 VDC sensors and devices to operate from low voltage AC supplies found in building automation. Additionally allows use of 24 VDC devices from 48 VDC found in telecommunication applications.

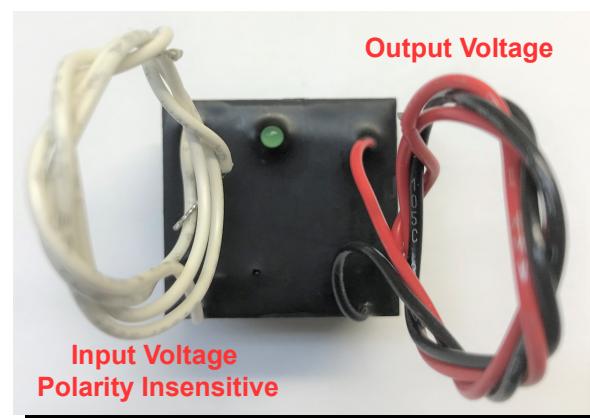
The input has transient voltage protection and thermally fused. The output has continuous short circuit protection and recovers automatically. Thermal fuses do not need to be replaced and will reset when fault condition is removed. This provides protection to the unit under most fault conditions.

Please contact the factory for other AC input or DC output voltage ranges.

WIRING AND INSTALLATION

The Model 25A wiring is done via four flying leads. The (2) White Wires are used for the input and they are not polarity sensitive. The red/black wires are the DC output of the Model 25A. Red Wire is positive while the Black Wire is negative,

Since the entire unit is encapsulated it can be simply dropped into any conduit box or enclosure without regard to mounting hardware. The switching power supply design generates very little heat and requires no external fans. A green LED indicates DC power available



SPECIFICATION

General

Operating Temperature	-40 to 70 C -40 to 158 F
Operating Humidity	0 to 100% Relative Humidity
Input Voltage Range	21 to 36 VAC 28 to 50 VDC
Output Voltage	24 VDC -5% / +0 (50 mV ripple typical) NOTE: Output voltage is set slightly lower than 24 VDC to maintain regulation under full load in the event that input voltage drops to 21 VAC.
Maximum Output current	450 mA
Wiring Connection	Four flying leads 24 GA Approximately 6" / 15 cm long

Dimension and Materials

External Dimension	3 cm (1.2") W x 3 cm (1.2") L x 2 cm (0.8") H
Enclosure Type	Encapsulated
Enclosure Material	Black ABS

ORDERING INFORMATION

0025A-24-24-045	Model 25A Low Voltage AC/DC Power Supply. 24 VAC Input nominal. 24 VDC output at 450 mA. Please contact the factory for other AC input or DC output voltage ranges.
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