



24 VDC POWER SUPPLY FA-24PS
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OVERVIEW

The **Automationdirect.com** FA-24PS compact 24V power supply accepts 100-240V AC input and provides up to 1.25 A continuous output current. It is easily installed, provides substantial protection and is low cost.

WARNING – EXPLOSION HAZARD

This equipment is suitable for use in Class I, Division 2, Groups A, B, C or D or non-hazardous locations only. Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous. Substitutions of components may impair suitability for Class I, Division 2.

HARDWARE FEATURES

- The power supply mounts on standard DIN rail.
- Screw terminals eliminate the need for soldering during installation.
- The compact 3.5" by 3.7" foot print saves panel space.
- Only convection cooling is required for full power operation.

PROTECTION FEATURES

- **Brown-out protection** - provides regulation down to 85 VAC at full load with no compromise in performance.
- **Over-voltage protection** – protects power supply from damage due to AC line surges.
- **Overload protection** - provides protection against overload and short circuit conditions. Includes automatic recovery upon removal of the overload condition.
- **Overshoot protection** - no overshoot at turn-on or turn-off.

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GENERAL SPECIFICATIONS

Input Voltage Range	100-240 VAC 100-240 VDC
Input Voltage Frequency	47 to 63 Hz
Input Power	40 VA
Output Voltage	24 VDC \pm5%
Output Current	1.25 A
Output Ripple	\pm200 mV maximum
Temperature Rating	0°C to 60°C full rated
Transient Response	Output stays within 1% for a load current change from 75% (.9A) to either 50% (.6A) or 100% (1.25A).
Insulation Resistance	10 M Ω at 500 V minimum
Dielectric Withstand Voltage	L or N Input to Output, 500 V min. Ground Input to Output, 250 V min.

DIN RAIL MOUNTING

The integrated DIN clips allow mounting on a variety of DIN rails, including DIN #3.

INPUT WIRING

The "L" and "N" terminals are the AC input line and neutral connection points respectively. The frame ground connection point may be used to reduce power supply noise levels or as required by any applicable codes or standards. The inputs must be fused externally.

OUTPUT WIRING

Optimum load regulation is provided where a single point ground is used. When loads are daisy chained, the finite wire resistance between loads will introduce voltage drops.