

# Power Supplies: Open Frame

The most economical choice for 24 VDC power

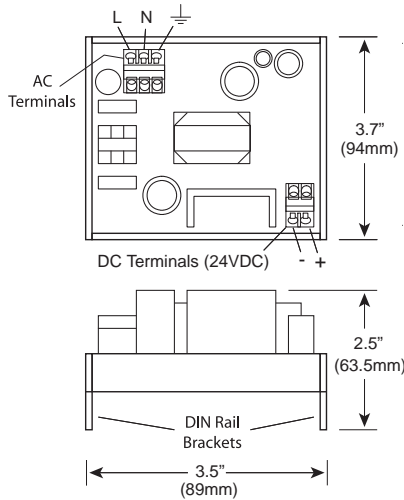
## FA-24PS



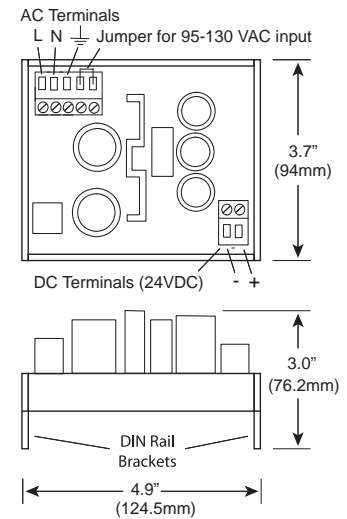
These power supplies are especially useful when an inexpensive external supply is required.

The FA-24PS compact switching power supply accepts 100-240 VAC or DC input and provides up to 1.25A (30 watts) output current at 24 VDC.

The FA-24PS-90 supplies 3.7A (90 watts) at 24 VDC and its input is jumper selectable between 95-130 or 190-264 VAC.



## FA-24PS-90



General Specifications		
Part Number	FA-24PS	FA-24PS-90
<b>Input Voltage Range</b>	100-240 VAC/DC	95-130 VAC or 190-264 VAC, jumper selectable
<b>Input Voltage Frequency</b>	47 to 63 Hz	47 to 63 Hz
<b>Input Power</b>	40 VA	112 VA
<b>Output Voltage</b>	24 VDC $\pm$ 5%	24 VDC $\pm$ 5%
<b>Output Current</b>	1.25 A maximum continuous	3.7 A maximum continuous, subject to derating
<b>Output Ripple</b>	$\pm$ 200 mV maximum	$\pm$ 200 mV maximum
<b>Temperature Rating</b>	0°C to 60°C full rated	0°C to 30°C full rated; derate current 1.1% per degree above 30°C; 60°C max
<b>Transient Response</b>	Output stays within 1% for a load current change from 75% (0.9A) to either 50% (0.6A) or 100% (1.25A)	Output stays within 1% for a load current change from 75% (2.8A) to either 50% (1.8A) or 100% (3.7A)
<b>Mounting</b>	DIN rail, 35mm wide; Models DN-R35S1 or DN-R35HS1	DIN rail, 35mm wide; Models DN-R35S1 or DN-R35HS1
<b>Screw Terminals</b>	Wire Size: 18-12 AWG Rec. Screw Torque: 4.4 in•lb or 0.5 Nm	Wire Size: 18-12 AWG Rec. Screw Torque: 4.4 in•lb or 0.5 Nm
<b>Insulation Resistance</b>	10 M $\Omega$ at 500 V minimum	10 M $\Omega$ at 500 V minimum
<b>Dielectric Withstand Voltage</b>	L or N Input to Output: 500 V min; Ground Input to Output: 250 V min	L or N Input to Output: 500 V min; Ground Input to Output: 250 V min
<b>Brown-out Protection</b>	Provides temporary regulation down to 85 VAC at full load	Provides temporary regulation at 95VAC at full load
<b>Input Protection</b>	The power supply has an internal fuse for the AC input line, rated at 3.15 amps; not user replaceable; external input fusing required.	The power supply has an internal fuse for the AC input line, rated at 3.15 amps; not user replaceable; external input fusing required.
<b>Overload Protection</b>	Protects power supply from overload and short circuit conditions. Includes automatic recovery upon removal of the overload condition	Protects power supply from overload and short circuit conditions. Includes automatic recovery upon removal of the overload condition
<b>Inrush Current (2mS)</b>	115 V <12.5 A / 230 VAC <13.9 A	115 VAC <79 A / 230 VAC <37 A
<b>Overshoot Protection</b>	No overshoot on turn-on or turn-off	No overshoot on turn-on or turn-off
<b>Agency Standards and Approvals</b>	UL 508; Class I, Div 2, Groups A, B, C, D hazardous locations; CUL, UL Listed File E200031	UL 508; Class I, Div 2, Groups A, B, C, D hazardous locations; CUL, UL Listed File E200031