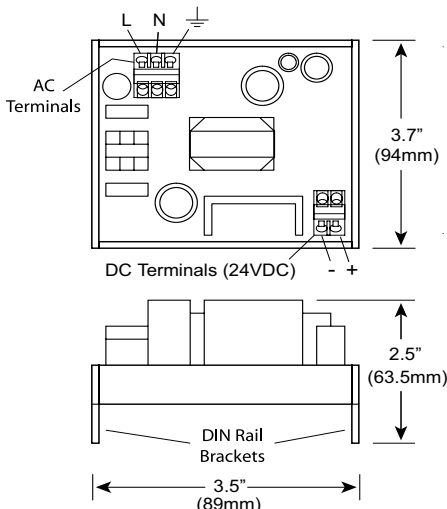


# Power Supplies: Open Frame

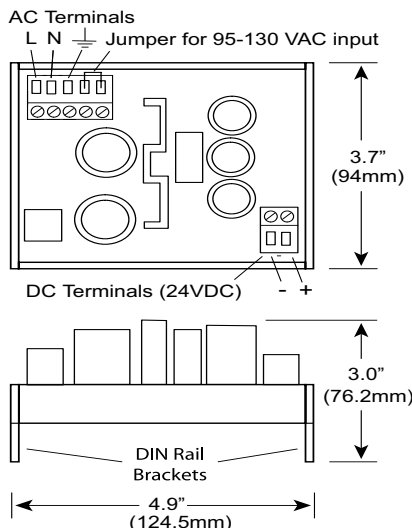
## The most economical choice for 24 VDC power



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

The [FA-24PS](#) compact switching power supply accepts 120/240VAC or 100-240VDC input and provides up to 1.25A (30 watts) output current at 24VDC.

The [FA-24PS-90](#) supplies 3.7 A (90 watts) at 24VDC and its input is jumper selectable between 120 or 240VAC.



### General Specifications

| Part Number                    | <a href="#">FA-24PS</a>                                                                                                                | <a href="#">FA-24PS-90</a>                                                                                                             |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Price                          | \$73.00                                                                                                                                | \$101.00                                                                                                                               |
| Drawing Link                   | <a href="#">PDF</a>                                                                                                                    | <a href="#">PDF</a>                                                                                                                    |
| Input Voltage Range            | 100-240VAC/DC                                                                                                                          | 95-130VAC or 190-264VAC, jumper selectable                                                                                             |
| Input Voltage Frequency        | 47 to 63Hz                                                                                                                             | 47 to 63Hz                                                                                                                             |
| Input Power                    | 40VA                                                                                                                                   | 112VA                                                                                                                                  |
| Output Voltage                 | 24VDC $\pm 5\%$                                                                                                                        | 24VDC $\pm 5\%$                                                                                                                        |
| Output Current                 | 1.25 A maximum continuous                                                                                                              | 3.7 A maximum continuous, subject to derating                                                                                          |
| Output Ripple                  | $\pm 200\text{mV}$ maximum                                                                                                             | $\pm 200\text{mV}$ maximum                                                                                                             |
| Temperature Rating             | 0 to 60°C full rated                                                                                                                   | 0 to 30°C full rated; derate current 1.1% per degree above 30°C; 60°C max                                                              |
| Transient Response             | 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]                                   |
| Mounting                       | DIN rail, 35mm wide; Models <a href="#">DN-R35S1</a> or <a href="#">DN-R35HS1</a>                                                      | DIN rail, 35mm wide; Models <a href="#">DN-R35S1</a> or <a href="#">DN-R35HS1</a>                                                      |
| Screw Terminals                | Wire Size: 18-12AWG Rec. Screw Torque: 4.4 in•lb or 0.5 Nm                                                                             | Wire Size: 18-12AWG Rec. Screw Torque: 4.4 in•lb or 0.5 Nm                                                                             |
| Insulation Resistance          | 10 M $\Omega$ at 500V minimum                                                                                                          | 10 M $\Omega$ at 500V minimum                                                                                                          |
| Dielectric Withstand Voltage   | L or N Input to Output: 500 V min; Ground Input to Output: 250V min                                                                    | L or N Input to Output: 500 V min; Ground Input to Output: 250V min                                                                    |
| Brown-out Protection           | Provides temporary regulation down to 85VAC at full load                                                                               | Provides temporary regulation at 95VAC at full load                                                                                    |
| Input Protection               | 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. |
| Overload Protection            | 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   |
| Inrush Current (2mS)           | 115V <12.5 A / 230VAC <13.9 A                                                                                                          | 115VAC <79A / 230VAC <37A                                                                                                              |
| Overshoot Protection           | No overshoot on turn-on or turn-off                                                                                                    | No overshoot on turn-on or turn-off                                                                                                    |
| Agency Standards and Approvals | UL 508; Class I, Div 2, Groups A, B, C, D hazardous locations; CUL, UL Listed File No. E200031                                         |                                                                                                                                        |