# PS-175-12

## **Heavy Duty Rack Power Supply Operations Manual**

THIS MANUAL CONTAINS TECHNICAL INFORMATION FOR THE PS-175-12 SERIES POWER SUPPLY.

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#### 1.1 OVERVIEW

The PS-175-12 Rack Power Supply is a rack mounted high efficiency switching power supply that provides four independent channels of regulated 12 VDC power for a NEMA TS-1 Detector Rack. The PS-175-12 meets or exceeds all requirements of the NEMA Standard TS-1 1989 R2000. The AC Line input is rated for universal 89 to 270 Vac operation, 50/60 Hz.

### 1.2 OUTPUT CONFIGURATION

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The PS-175-12 provides four independent regulated outputs each rated at 1.25 Amps over the full -30°F to 165°F (-34°C to +74°C) NEMA operating temperature range. Each output is fused for over-current protection. Each output is also protected against voltage transients by a 1500 Watt suppressor.

#### 1.3 INDICATORS

A separate green LED indicator is provided to display output status and fuse integrity for each of the four supply outputs.

## 1.4 ELECTRICAL

AC Operating Voltage Minimum AC Operating Voltage Maximum AC Operating Frequency Fuse (5mm x 20mm)	270 Vac 45 to 65 Hz
1.4.2 DC OUTPUTS DC Output Voltage DC Output Voltage Maximum (no load) DC Output Current Maximum (per channel) Fuse (6.35mm x 31.75mm)	
1.4.3 MECHANICAL  Height  Width  Depth (excluding handle)	2.0 inches
1.4.4 ENVIRONMENTAL Storage Temperature Range Operating Temperature Range Humidity (non-condensing)	34 to +74 °C

### 1.5 MAIN CONNECTOR

The main connector is a double sided 44 pin edge type with 0.156 inch center gold fingers.

Pin	Pin	Function
Α	1	DC Common
В	2	Channel 1 DC Output
С	3	Channel 2 DC Output
L	10	Chassis Ground
М	11	AC Neutral
N	12	AC Line
U	17	Channel 3 DC Output
V	18	Channel 4 DC Output

All other pins are not connected