### **PS-175**

## Heavy Duty Rack Power Supply Operations Manual

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

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#### 1.1 OVERVIEW

The PS-175 Rack Power Supply is a rack mounted high efficiency switching power supply that provides four independent channels of regulated 24 VDC power for a NEMA TS-1 Detector Rack. The PS-175 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

1.4.1 POWER REQUIREMENTS

The PS-175 provides four independent regulated outputs each rated at 0.75 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	270 Vac	
AC Operating Frequency	45 to 65 Hz	
Fuse (5mm x 20mm)		
1.4.2 DC OUTPUTS		
DC Output Voltage	24 Vdc +/- 15%	
DC Output Voltage Maximum (no load)	27.5 Vdc	
DC Output Current Maximum (per channel)		
Fuse (6.35mm x 31.75mm)	1A Slow Blow	
1.4.3 MECHANICAL		
Height	4.5 inches	
Width		
Depth (excluding handle)	6.875 inches	
1.4.4 ENVIRONMENTAL		

#### 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
M	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