

# PS-250A

## Nema TS-2 Cabinet Power Supply Operations Manual

THIS MANUAL CONTAINS TECHNICAL INFORMATION FOR  
THE PS-250 SERIES POWER SUPPLY.

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## 1.1 OVERVIEW

The PS-250 Cabinet Power Supply is a shelf mounted high efficiency switching power supplies that provide regulated DC power, unregulated AC power, and a line frequency reference for the BIUs and other auxiliary equipment. The PS-250 meets and/or exceed all requirements of the NEMA TS2-2003 Standard.

All TS-2 Type 1 cabinet assemblies require the use of a cabinet power supply unit as well as any TS-2 Type 2 cabinet assemblies that utilize Bus Interface Units (BIU). The PS-250 is intended for high power in the detector rack for devices such as video detection.

## 1.2 INDICATORS

A separate LED indicator is provided to display output status and fuse integrity for the three DC supply outputs. The Line Frequency Reference indicator pulses to show 60 Hz activity.

## 1.3 SPECIFICATIONS

### 1.3.1 POWER REQUIREMENTS

AC Operating Voltage Minimum ..... 80 Vac  
 AC Operating Voltage Maximum ..... 135 Vac  
 AC Operating Frequency ..... 55 to 65 Hz

### 1.3.2 DC OUTPUT

24VDC Output Voltage ..... 24 Vdc +/- 2 Vdc  
 24VDC Output Current Maximum ..... 2 Amps  
 12VDC Output Voltage ..... 12 Vdc +/- 1 Vdc  
 12VDC Output Current Maximum (PS-250) ..... 5 Amps  
 12VAC Output Voltage Minimum (At AC Line = 89Vac) ..... 7.5 Vac  
 12VAC Output Current Maximum ..... 0.25 Amps  
 Minimum Holdup Time ..... 50 milliseconds

### 1.3.3 MECHANICAL (PS-250)

Height ..... 8.2 inches  
 Width ..... 5.8 inches  
 Depth (including connector) ..... 8.3 inches

### 1.3.4 ENVIRONMENTAL

Storage Temperature Range ..... -45 to +85 °C  
 Operating Temperature Range ..... -34 to +74 °C  
 Humidity (non-condensing) ..... 0 to 95% Relative

## 1.4 MAIN CONNECTOR

The main connector mates with an MS3106()-18-1SW or equivalent.

Pin	Function	Pin	Function
A	AC Neutral	F	Reserved
B	Line Frequency Reference	G	Logic Ground
C	AC Line	H	Earth Ground
D	+12 Vdc Output	I	12 Vac Output
E	+24 Vdc Output	J	Reserved