

PS-200

Nema TS-2 Cabinet Power Supply Operations Manual

THIS MANUAL CONTAINS TECHNICAL INFORMATION FOR
THE PS-200 SERIES CABINET POWER SUPPLY.

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1.1 OVERVIEW

The PS-200 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-200 meets and/or exceeds all requirements of the NEMA TS2-2003 (R2008) 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 model is intended for high power in the detector rack for devices such as video detection and provides 5 Amps at 12 Vdc.

1.2 INDICATORS

A separate LED indicator is provided to display output status and fuse integrity for the two DC supply outputs and the 12 VAC output. 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-200) 2 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-200)

Height 5.3 inches
Width 4.0 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