

PS-200 and PS-250

Nema TS-2 Cabinet Power Supply Operations Manual

THIS MANUAL CONTAINS TECHNICAL INFORMATION FOR THE PS-200 AND PS-250 SERIES POWER SUPPLY. INCLUDED ARE GENERAL DESCRIPTION, OPERATIONAL DESCRIPTION, INSTALLATION, AND SPECIFICATIONS.

THE PS-200 AND PS-250 POWER SUPPLY IS DESIGNED AND MANUFACTURED IN THE USA BY EBERLE DESIGN INC., PHOENIX, ARIZONA.

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REVISION: MARCH 2009
pn 888-0250-001



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1.1 OVERVIEW

The PS-200 and PS-250 Cabinet Power Supply are 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 and PS-250 each meet 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 applications requiring 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 LED indicator pulses to show 60 Hz activity.

1.3 ELECTRICAL

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
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-200)

Height	5.3 inches
Width.....	4.0 inches
Depth (including connector)	8.3 inches

1.3.4 Mechanical (PS-250)

Height	8.2 inches
Width.....	4.0 inches
Depth (including connector)	8.3 inches

1.3.5 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