

PS250-225

Cabinet Power Supply

The ideal power source when using high current devices such as video detection cards.

The PS250-225 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 PS250-225 meets and/or exceeds all requirements of the NEMA TS2-2016 Standard.

The PS250-225 is intended for applications requiring higher power in the detector rack for devices such as video detection. Power Factor Correction is provided reducing peak AC Line input current and associated stress on wiring. The outputs are protected against voltage transients by a 1500-Watt suppressor.

A separate LED indicator is provided to display output status and fuse integrity for the two DC supply outputs (12VDC, 24VDC) and the 12 Vac output (12VAC). The Line Frequency Reference indicator pulses to show 50/60 Hz activity. An indicator is also provided for the AC Line input (POWER).



SPECIFICATIONS

MECHANICAL

HEIGHT	6.0 INCHES
WIDTH	4.0 INCHES
DEPTH (w/ Connector)	8.4 INCHES

ENVIRONMENTAL

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

MAIN CONNECTOR

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

POWER REQUIREMENTS

AC Operating Voltage Minimum	160 Vac
AC Operating Voltage Maximum	270 Vac
AC Operating Frequency	45 to 65 Hz
Power Factor (220 Vac at Full Load)	0.98

DC OUTPUT

24VDC Output Voltage	24 Vdc +/- 2 Vdc
24VDC Output Current Maximum	3 Amps (72 Watts)
12VDC Output Voltage	12 Vdc +/- 1 Vdc
12VDC Output Current Maximum	5 Amps (60 Watts)
12VAC Output Voltage Minimum (At AC Line = 178Vac)	7.5 Vac
12VAC Output Current Maximum	0.25 Amps (3 Watts)
Minimum Holdup Time	50 milliseconds
DC Output Ripple Maximum	250 mVpp

Note: Ripple is measured at 20MHz of bandwidth using a 12" twisted pair-wire terminated with a 0.1uf & 47uf capacitor.