

PS216EP-LAX

High Efficiency Cabinet Power Supply Operations Manual

THIS MANUAL CONTAINS TECHNICAL INFORMATION FOR
THE PS216EP-LAX SERIES POWER SUPPLY.

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1.1 OVERVIEW

The Model 216EP-LAX Cabinet Power Supply is a 19" rack mounted high efficiency switching power supply that provides a regulated +24VDC output.

The Model 216EP-LAX series provides output regulation across changes in AC Line voltage and full output load over the operating temperature range of -34C to +74C with no derating necessary. Power Factor Correction is also provided reducing peak AC Line input current and associated stress on wiring. The outputs are also protected against voltage transients by a 1500 Watt suppressor.

1.2 INDICATORS

A green LED indicator is provided to display AC Line input status and fuse integrity. A separate green LED indicator is also provided to display output status and fuse integrity for the DC output.

1.3 SPECIFICATIONS

1.3.1 AC POWER REQUIREMENTS

AC Operating Voltage..... 80 to 270 Vac
 AC Operating Frequency 45 to 65 Hz
 Power Factor (120 Vac at full load).....0.98
 24VDC Efficiency (120 Vac at full load) 86%

1.3.2 DC OUTPUTS

+24VDC Output Voltage 24 Vdc +/- 2%
 +24VDC Output Current Maximum5 Amps
 DC Output Ripple Maximum 200 mVpp
 Note: Ripple is measured at 20MHz of bandwidth using a 12" twisted pair-wire terminated with a 0.1uf & 47uf capacitor.
 Minimum Holdup Time (5 Amp load)..... 50 milliseconds

1.3.3 MECHANICAL

Rack Height (2U)..... 3.5 inches
 Rack Width..... 19.0 inches
 Depth 7.25 inches

1.3.4 ENVIRONMENTAL

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

1.4 TERMINATIONS

Rear View

