PS-2248

High Efficiency ATC Cabinet Power Supply

The EDI **PS-2248 Series** is a 19" rack mounted high power supply for the Advanced Transportation Controller Cabinet (ATCC). The PS-2248 is intended for use in a Low Voltage (LV) version of the ATC Cabinet where the Output Assembly and field signals are powered at 48VDC. The compact 1U height unit is designed to save rack space.

The **PS-2248 Series** uses modern switching technology and provides full output regulation across changes in AC Line voltage and output load <u>over the full operating temperature range of -34C to +74C</u> without the need for a fan. Power Factor Correction is also provided.

❑ **PS-2248-HV**   **48VDC @ 8 Amp, 24VDC @ 5 Amp**

PS-2248 OPERATIONAL FEATURES

Basic Functions: The PS-2248 provides 450 watts total power with a 48 Vdc main output and a fully isolated 24 Vdc output over the full -34°C to +74°C NEMA operating temperature range.

- ☑ 8 Amp Maximum Load Current for the 48 Vdc output
- ☑ 5 Amp Maximum Load Current capability for the 24Vdc output
- ☑ Note #1: Total combined Output DC power (24Vdc+48Vdc) must be limited to 450 watts.
- ☑ Full Output Regulation +/- 2 Vdc over line and load
- ☑ High Efficiency
- ☑ Power Factor Corrected

Display Indicators: Separate green LED indicators display AC input status, DC output status and associated fuse integrity.

Input Voltage Operating Range: 80 Vac to 270 Vac at 60 or 50 Hz

Power Factor Corrected (PFC): A Power Factor Correction circuit ensures a full load power factor of 0.98 or better, reducing peak AC Line input current and associated stress on wiring. Inrush current limited.

Output Protection: The outputs are fused for over-current protection. The outputs are also protected against voltage transients by a 1500 Watt suppressor.

Output Connector Pins: Phoenix Contact 1825161 (mates with 1825352 male harness plug)

Pin	Function	Pin	Function
1	+48VDC	4	Reserved
2	48VDC Ground	5	24VDC Ground
3	+24VDC	6	Earth Ground

Dimensions: 1.75 inches High x 19.0 inches Wide x 7.5 inches Deep