



6 kW, N+1 REDUNDANT,
THREE PHASE,
POWER-FACTOR CORRECTED,
48V FRONT END



PS2314 POWER SUPPLY FEATURES

INPUT POWER:	Y Connection, Three Phase with Neutral 180 Vac - 528 Vac Line to Line, 47 - 63 Hz, 24A Max service, with Active Power Factor Correction (104 - 305 Vac Line to Neutral).
INRUSH CURRENT:	Limited by Active Inrush Current Protection @ 25°C to less than 70A peak @ 528Vac Line to Line.
INPUT CONNECTOR:	Leviton 30A, 480V, 3 phase, 4 pole with 5 th wire for grounding (p/n 2825).
OUTPUT POWER:	6 kW Max (48 Vdc @ 125 A) with Third Wire current sharing capability.
OUTPUT CONNECTOR:	Two Floating ELCON Flatpaq connectors for power and chassis
SIGNAL CONNECTOR:	Molex Connector for Current Sharing, Interlock, PSU WAIT, CAN Bus ID Pins, CAN Bus and grounding.
OPERATING AMBIENT:	-10 to 55°C
COOLING:	Two push-pull 48V, 190 CFM fans
FRONT PANEL LEDs:	INGOOD1, INGOOD2, INGOOD3, Fan/ Temp status and OUT GOOD.
MCC REPORTING:	Current Out, Inlet and Outlet Temperature, INGOOD1, INGOOD2, INGOOD3, OGOOD, Fan Status, Over Temperature, Over Voltage and Over Current (via CAN Bus). CAN (Control Area Network)
MCC CONTROL:	Output Enable, LED Test.
CONSTRUCTION:	Fully enclosed steel chassis.
NOMINAL SIZE:	23"L x 6.2"H x 8.3"W (584 mm x 157 mm x 210 mm)
WEIGHT:	Approx. 38 Lbs.



PS2314 POWER SUPPLY FEATURES

(Continued)

PROTECTIONS:

- AC Input undervoltage protection
- Self-restarting type overvoltage protection on 410 Vdc bus.
- Primary power limiting for PFC Boost and Down Converters.
- Primary and Secondary overtemperature protection, resetting with hysteresis.
- Latching Output overvoltage.
- Non-latching hiccup type output current limiting and short circuit protection.

INPUT POWER:

Three 70 kHz, power factor corrected boost converters with more than 2.2 kW of output power capability per channel.

Three flyback converters, each powered by a separate PFC channel.

OUTPUT POWER:

Three channels, each containing a 2 kW, 111 kHz, Zero Voltage Switching, Phase Shifted Full Bridge with forced internal current sharing between channels.

POWER SUPPLY MECHANICAL OUTLINE

