

Power

CXDF 48-24/2kW

Cordex™ Series DC-DC Converters



CXDF 48-24/2kW Converter Module

- > DC-DC converter support small to medium 24Vdc loads from a 48Vdc power system
- > High power density modular design, up to 2kW output per module
- > Advanced monitoring and control capability including remote accessibility
- > Internal low voltage shutdown for cost effective integration into existing systems

Cordex DC-DC converters bring advanced technology to the DC power industry. Innovative engineering combines the best in efficiency and reliability meeting a wide array of power requirements. The converter system is a perfect solution for providing 24Vdc output from a standard 48Vdc power system for a variety of dual-voltage system applications including powering of wireless radios.

The fan-cooled CXDF 48-24/2.0kW converter has extremely high density, providing the most power in the least amount of space. Each 19" shelf can accommodate up to 4 compact 2RU modules. The converter system can be controlled and monitored by a central Cordex CXC controller and optionally via a shelf integrated CXCI controller solution for stand alone operation.

Local and remote setup, adjustment and control is a simple single-step process with the Cordex CXC system controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.



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Part Number: 012-527-20

Electrical

Input voltage:-42 to -60Vdc
 Input current:.....<48A @ 48V (55A max)
 Efficiency:.....>88% (50 to 100% load)
 Input noise:
 Voice band:<32dBnC
 Wide band:<10mV RMS to 10MHz
 <150mVp-p to 100MHz
 Output power:.....2000W max @ 27Vdc (1.8kW @ 24Vdc)
 Output voltage:.....27Vdc nominal
 Output current:.....74A max @ 27Vdc
 Regulation:.....-1% +/-0.1% load (static)
 +/- 0.1% line (static)
 Output noise:
 Voice band:<38dBnC
 Wide band:<20mV RMS to 10MHz
 <150mVp-p to 100MHz
 Acoustic noise:.....<60dBa @ 1m (3ft)

Performance / Features

Indicators:Input ok LED (green)
 Output ok LED (green)
 Module fail LED (red)
 Adjustments:Via CXC controller
 Protection:.....Input fuse
 Input inrush current limit
 Output fuse
 Over temperature limiting
 Input high and low voltage shutdown
 Current limit/short circuit protection
 Miscellaneous:.....Control and monitoring via CXC controller
 (requires v1.96 min)
 Low voltage cutoff (LVD)

Mechanical

Dimensions:
 mm:.....84H x 100W x 235D
 in:.....3.3H x 3.94W x 9.25D
 Weight:.....2.8kg (6.2lbs)

Environmental

Temperature:.....-40 to 55°C (de-rated power up to 75°C)
 Humidity:.....0 to 95% NC

Shelves

48-24V 4-Mod 19/23" shelf P/N: 030-840-20

>Mechanical

Dimensions:
 mm:.....88.4H x 438W x 332D
 in:.....3.48H x 17.2W x 13.1D
 Weight:.....8.6kg (18.9lbs)

>Performance / Features

CAN bus communication to remote CXC controllers/peripherals
 Optional integrated CXCI controller

Agency Compliance

Safety:CSA/UL C22.2 60950 (NRTL)
 CE IEC/EN 60950
 CE marked
 EMI:Class A radiated
 Class A conducted
 EN 6100-4-2, -3, -4, -6
 GR-1089 (where applicable)
 GR-63