

CXDF 48-24/2kW

Cordex™ Series DC-DC Converters



Your Power Solutions Partner



- 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

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