

# 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.

# CXDF 48-24/2kW Cordex™ Series DC-DC Converters

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