

# CXDF 24-48/2kW

Cordex™ Series DC-DC Converters



Your Power Solutions Partner



- DC-DC converter supports small to medium 48Vdc loads from legacy 24V power systems
- 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 24-48/2.0kW 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 24-48/2kW Cordex™ Series DC-DC Converters

Part Number: 012-526-20

## ELECTRICAL

**Input voltage:** .....21 to 30Vdc  
**Input current:**.....Up to 94A @ 24V  
**Efficiency:**.....>88%  
**Input noise:**  
   Voice band: .....<32dBnC  
   Wide band:.....<10mV RMS to 10MHz  
                   <150mVp-p to 100MHz  
**Output power:** .....2000W max @ -54V  
**Output voltage:** .....-54Vdc nominal  
**Output current:** .....37A max  
**Regulation:** .....-1% +/-0.1% load (static)  
                   +/- 0.1% line (static)  
**Output noise:**  
   Voice band: .....<38dBnC  
   Wide band:.....<10mV 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

**24-48V 5-Mod 23" shelf (single input) P/N: 030-900-20**  
**24-48V 4-Mod 19" shelf (single input) P/N: 030-839-20**

### > Mechanical

**24-48V 5-Mod 23" shelf dimensions:**  
   mm:.....89H x 584W x 304D  
   in: .....3.5H x 23.0W x 12.0D  
**Weight:**.....10.4kg (23.0lbs)

**24-48V 4-Mod 19" shelf dimensions:**  
   mm:.....89H x 438W x 310D  
   in: .....3.5H x 17.2W x 12.2D  
**Weight:**.....8.5kg (19lbs)

### > Performance / Features

CAN bus communication  
 Optional integrated CXCI controller  
 ± Input busbar integration with standard 3.1kW systems (S-mod shelf)

## RELATED COMPONENTS

### External Options:

567-808-19:.....Kydex cover, 23" CXDF shelf  
 567-809-19: .....Kydex cover, 19" CXDF shelf

## 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



CXDF 24-48/2kW 23", 5-module shelf



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