

CXDF 24-48/2kW

Cordex™ Series DC-DC Converters



CXDF 24-48/2kW Converter Module

- 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.

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Part Number: 012-526-20

Electrical

Input voltage:21 to 30Vdc
 Input current:Up to 94A @ 24V
 Efficiency:>88%
 Input noise:
 Voice band:<32dBn
 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:<38dBn
 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