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CXDF 48-24/2kW

Cordex® Series DC-DC Converters



- 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

P/N: 012-527-20-040

Electrical	
Input Voltage:	-42 to -60VDC
Input Current:	<48A @ 48V (55A max)
Efficiency:	>88% @ 0 to 100% load
Input Noise:	Voice band: <32dBmC 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: <38dBmC Wide band: <20mV RMS to 10MHz <150mVp-p to 100MHz
Acoustic Noise:	<60dBa @ 1m (3ft)
Performance / Features	
Indicators:	<ul style="list-style-type: none"> • Input ok LED (green) • Output ok LED (green) • Module fail LED (red)
Adjustments:	Via CXC controller
Protection:	<ul style="list-style-type: none"> • Input fuse • Input inrush current limit • Output fuse • Over temperature limiting • Input high and low voltage shutdown • Current limit/short circuit protection
Miscellaneous:	<ul style="list-style-type: none"> • Control and monitoring via CXC controller • Low voltage cutoff (LVD)

Mechanical	
Dimensions:	mm: 84H x 100W x 235D in: 3.3H x 3.94W x 9.25D
Weight:	2.4kg (5.3lbs)
Environmental	
Temperature:	-40 to 55 °C (de-rated power up to 75 °C)
Humidity:	0 to 95% Non-Condensing
Shelves	
48-24V 4-Mod 19/23" Shelf	P/N: 030-840-20-040
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	
<ul style="list-style-type: none"> • CAN bus communication to remote CXC controllers/peripherals • Optional integrated CXCI controller 	
Related Components	
Kydex cover, 23" CXDF shelf	P/N: 5610613-001
Kydex cover, 19" CXDF shelf	P/N: 5610611-001
Agency Compliance	
Safety:	CSA/UL C22.2 60950 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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