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CXDF 24-48/2kW

Cordex® Series DC-DC Converters



- 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 48VDC output from a standard 24VDC 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

P/N: 012-526-20-040

| Electrical | |
|------------------------|---|
| Input Voltage: | 21 to 30VDC |
| Input Current: | Up to 94A @ 24V 110A Max @ 21Vdc |
| Efficiency: | >88% @ 50-100% load |
| Input Noise: | Voice band: <33dBmC Wide band: <10mV RMS to 10MHz <150mVp-p to 100MHz |
| Output Power: | 2000W max @ -54V |
| Output Voltage: | -54VDC nominal |
| Output Current: | 38A max |
| Regulation: | -1% ± 0.1% load (static) ± 0.1% line (static) |
| Output Noise: | Voice band: <41dBmC Wide band: <10mV 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 | |
|  | |
| 24-48V 5-Mod 23" shelf (single input) | P/N: 030-900-20-040 |
| 24-48V 4-Mod 19" shelf (single input) | P/N: 030-839-20-041 |
| 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: | 85kg (19lbs) |
| Performance / Features | |
| <ul style="list-style-type: none"> • CAN bus communication • 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 (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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