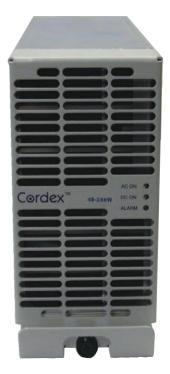
Cordex[™] 3.6kW

Modular Switched Mode Rectifier



CXRF 48-3.6kW

- Available in 75A @ 48VDC
- > High power density, over 21kW per 23" shelf
- Power limiting and wide range AC input
- 92% efficiency and power factor correction
- > Hot swappable, 4RU ultra compact design

Cordex rectifiers bring advanced technology to the DC power industry. Innovative engineering combines the best in efficiency and reliability meeting the power requirements for a variety of system applications.

The fan cooled Cordex 3.6kW rectifier has extremely high density providing the most power in the least amount of space. A compact 4RU shelf accommodates six rectifiers per 23" shelf and five rectifiers per 19" shelf.

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.

Cordex 3.6kW Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage
Nominal: 208 to 277VAC
Operating: 176 to 312VAC

Extended: 176 to 90VAC (derated power)

Input frequency: 45 to 66Hz

Power: 3600W continuous/module Power factor: >0.99 (50 to 100% load)

THD: <5%
Efficiency: >92%
Output voltage: 42 to 60VDC
Float Voltage: 48 to 58VDC

Output current: 66A @ 54VDC (75A max. 48V)

Load regulation: $<\pm 0.5\%$ (static) Line regulation: $<\pm 0.1\%$ (static)

Transient response: $\pm 2\%$ for 50 to 100% load step,

2ms recovery time

Noise

Voice band: <32dBrnC

Wide band: <30mV RMS (10kHz to 10MHz) <150mV pk to pk (10kHz to 100MHz)

Psophometric: <1mV

Acoustic: <60dBa @ 1m (3ft)

Mechanical

Dimensions

mm: 160H x 87W x 300D inches: 6.3H x 3.4W x 11.8D Weight: 4.6kg (10lb)

Features

Indicators: AC mains OK—green LED

Module OK—green LED
Module fail—red LED
CAN interfere to CYC

Controls: CAN interface to CXC Controller

Adjustments: Float voltage (via CXC Controller) Equalize voltage

High voltage alarm
Low voltage alarm
High voltage shutdown

Current limit Slope

Start delay timers

Protection: Current limit/short circuit

Start delay Input/output fuses

Output high voltage shutdown

Power limiting

Thermal foldback/shutdown

Input transient

AC low line foldback/shutdown AC high voltage shutdown

Environmental

Temperature

 Standard:
 -40 to 65°C (-40 to 149°F)

 Storage:
 -40 to 85°C (-40 to 185°F)

 Humidity:
 0 to 95% RH non-condensing

 Elevation:
 -500 to 2800m (-1640 to 9186ft)

Heat dissipation: <1215 BTU per hour

Shelves

Mechanical

19"/23" shelf Dimensions

mm: 177H x 442W x 389D inches: 6.9H x 17.4W x 15.3D

Weight: 8.5kg (19lb)

Mounting: Fits 19" rack flush/center mount (5 modules) Fits 23" rack center mount only

23" shelf Dimensions

mm: 177H x 530W x 389D inches: 6.9H x 20.8W x 15.3D

Weight: 9.5kg (21lb)

Mounting: Fits 23" racks only flush/center mount

(6 modules)

Connections

Input: Box type terminal block

6 to 16mm² (10 to 6AWG)

Output: Bus adapters with %" studs on 1" centers

Chassis ground: Compression lug

6 to 16mm² (10 to 6AWG)

CAN communication: RJ 12 offset

Standards

The Cordex 3.6kW is designed to meet the following

Safety: CSA C22.2 No 60950-1-03

UL 60950-1 1st Edition CE marked

IEC/EN 60950-1 ETSI 300 386

EMC: ETSI 300 386 Emissions: CFR47 (FCC) Part 15 Class B

ICES-03 Class B

EN55022 (CISPR 22) Class B

C-tick (Australia) EN 61000-3-2 EN 61000-3-3

Immunity: EN 61000-4-2

EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11

ANSI/IEEE C62.41 Cat B3



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