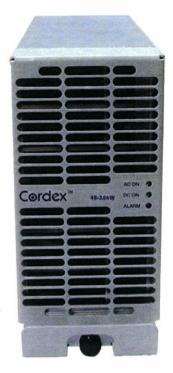
Cordex[™] 3.6kW

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

3600W continuous/module

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

±2% for 50 to 100% load step,

>0.99 (50 to 100% load)

Rectifier Module(s)

Electrical

Input voltage

Nominal:

208 to 277VAC 176 to 312VAC Operating:

Extended:

176 to 90VAC (derated power) 45 to 66Hz

<5%

>92%

42 to 60VDC

48 to 58VDC

<±0.5% (static)

<±0.1% (static)

2ms recovery time

Input frequency:

Power:

Power factor: THD:

Efficiency:

Output voltage: Float Voltage:

Output current: Load regulation:

Line regulation:

Transient response:

Noise

Voice band:

Wide band:

Psophometric:

Acoustic:

<32dBrnC <30mV RMS (10kHz to 10MHz) <150mV pk to pk (10kHz to 100MHz)

<1mV <60dBa @ 1m (3ft)

Mechanical

Dimensions

mm: inches: Weight:

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

Features

Indicators:

AC mains OK - green LED Module OK—green LED Module fail—red LED CAN interface to CXC

Controls:

Controller Float voltage

Adjustments: (via CXC Controller)

Equalize voltage High voltage alarm Low voltage alarm High voltage shutdown

Current limit Slope

Protection:

Start delay timers 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



Temperature

Standard: Storage: Humidity:

Environmental

-40 to 65°C (-40 to 149°F) -40 to 85°C (-40 to 185°F) 0 to 95% RH non-condensing -500 to 2800m (-1640 to 9186ft)

Elevation: Heat dissipation:

<1215 BTU per hour

Shelves

Mechanical

19"/23" shelf Dimensions

mm: inches:

177H x 442W x 389D 6.9H x 17.4W x 15.3D

177H x 530W x 389D

6.9H x 20.8W x 15.3D

Weight:

8.5kg (19lb)

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

23" shelf

Dimensions

mm: inches:

9.5kg (21lb) Weight: Fits 23" racks only flush/center mount Mounting

(6 modules)

Connections

Input:

Box type terminal block 6 to 16mm2 (10 to 6AWG)

Output:

Bus adapters with 3/8" studs on 1" centers Compression lug

Chassis ground:

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

EMC: Emissions:

Immunity:

ETSI 300 386 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 EN 61000-4-2

EN 61000-4-3 EN 61000-4-4 EN 61000-4-5

EN 61000-4-6 EN 61000-4-11 ANSI/IEEE C62.41 Cat B3