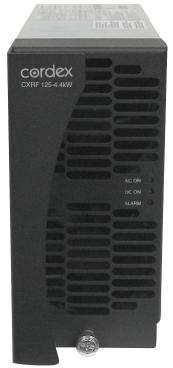
Cordex[™] 4.4kW

Modular Switched Mode Rectifier



CXRF 125-4.4kW

- > Available in 35A @ 125VDC or 20A @ 220VDC
- High power density, over 26kW 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. This rectifier is specifically designed to recharge all types of stationary batteries for large utility, petrochemical, and industrial uses.

The fan cooled Cordex 4.4kW 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 Windows Internet Explorer browser.



Cordex 4.4kW Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage
Nominal: 208 to 240VAC

Operating: 187 to 312VAC Extended: 187 to 90VAC (derated)

Input frequency: 45 to 70Hz

Power: 4400W continuous/module Power factor: >0.99 (50 to 100% load)

THD: <5% Efficiency: >92% Output voltage

125V Module: 90 to 160VDC 220V Module: 180 to 320VDC

Output current

125VDC Module: 35A@ 125VDC, 40A @ 110VDC

220VDC Module: 20A @ 220VDC Load regulation: Static <±0.5% Line regulation: Static <±0.1%

Transient response: <±5% for 40 to 90% load step, 30ms

recovery time

Wide band noise: 220VDC module: <30mVrms

<300mVp-p

125VDC module: <90mVrms <700mVp-p

Insulation: 2.5kVAC Input-Earth

3kVAC Input-Output 2kVAC Output-Earth 0.5kVAC Signals-Earth

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

Mechanical

Dimensions

mm: 160H x 87W x 300D inches: 6.3H x 3.4W x 11.8D Weight: 4.65kg (10.57lb)

Features

Indicators: AC mains OK—green LED

Module OK—green LED Module fail—red LED

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

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



Environmental

Temperature

 Standard:
 -40 to 50°C (-40 to 130°F)

 Extended:
 -40 to 75°C (-40 to 167°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: <1080 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: RJ12 offset

Standards

The Cordex 4.4kW 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: CFR47 (FCC) Part 15 Class A

ICES-03 Class A

EN55022 (CISPR 22) Class A

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

Immunity: EN 61000-4-2 EN 61000-4-3

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

For more information visit www.argusdcpower.com

Argus Technologies

Canada United States Burnaby, British Columbia Tel: 604 436 5900 Fax: 604 436 1233 Bellingham, Washington Tel: 360 647 2360 Fax: 360 671 4936

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