



Typical 26.4kW Shelf

Cordex rectifiers bring advanced technology to 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 had 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 CXC System Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a Windows Internet Explorer browser.

- + Switched mode rectifier available in 35A @ 125Vdc or 20A @ 220Vdc
- + High power density, over 22kW per 19" shelf
- + Power limiting and wide range AC input
- + Compliant with the stringent EMI immunity requirements for power station and substation environments
- + 92% efficiency and power factor correction
- + Hot swappable, 4RU ultra compact design

4.4kW

125Vdc & 220Vdc

Modular Switched Mode Rectifier

Electrical

Input voltage:

Nominal: 208 to 277Vac
Operating: 187 to 312Vac
Extended: 187 to 90Vac (de-rated to 40%)

Input frequency: 45 to 70Hz

Power factor: >0.99 (50 to 100% load)

THD: <5%

Efficiency: >92% Peak

Output voltage:

125V module: 90 to 160Vdc
220V module: 180 to 320Vdc

Output current:

125V module: 35A @ 125Vdc (40A @110Vdc max)
220Vdc module:.. 20A @ 220Vdc

Load regulation: <±0.5% (static)

Line regulation: <±0.1% (static)

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

Noise:

Wide band:

220Vdc Module: <30mV RMS <300mVp-p
125Vdc module: <90mVRMS <700mVp-p

Insulation: 2.5kVac input-earth

..... 3kVac input-output

..... 0.5kVac signals-earth

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

Mechanical

Dimensions:

mm: 60H x 87W x 300D
inches: 6.3H x 3.4W x 11.8D
Weight: 4.65kg (10.25lbs)

Shelves

Dimensions:

mm: 177H x 442W x 389D
inches: 7H x 17.4W x 15.3D

Weight: 8.5kg (18.7lbs)

Connections:

Input: Box type terminals block 6 to 16mm2
..... (10 to 6AWG) ^{3/8}

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

Chassis ground: Compression lug 6 to 16mm
..... (10 to 6AWG)

CAN communication: RJ12 offset

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

Performance/Features

Indicators: AC mains OK — green LED

Module OK — green LED

Module fail — red LED

Controls: CAN interface to CXC

Adjustments: Float voltage

(via CXC controller) Equalize voltage

High/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

Shelves

125V 19" 5-module P/N: 030-769-20

220V 19" 5-module P/N: 030-768-2

Agency Compliance

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, 3-3

Immunity: EN 61000-3-2, 3-3, 4-2, 4-3, 4-4, 4-5,

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

IEC TS 61000-6-5 Immunity for power
station and substation environments

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