



Your Power Solutions Partner

- > 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

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

125V P/N: 010-589-20, 220V P/N: 010-588-20

ELECTRICAL

Input voltage:

Extended:187 to 90Vac (de-rated)

Input frequency:.....45 to 70Hz

THD:<5% Efficiency:>92%

Output voltage:

Output current:

125Vdc module:35A@ 125Vdc (40A @ 110Vdc max)

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

time

Wide band noise:220Vdc module: <30mVrms

<300mVp-p e: <90mVrms

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

Insulation:2.5kVac input-earth

3kVac input-output 2kVac output-earth 0.5kVac signals-earth

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

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 alarms High voltage shutdown

Current limit Slope Start delay

Start delay Input/output fuses

Output high voltage shutdown

Power limiting

Thermal foldback/shutdown

Input transient

AC low line foldback shutdown

MECHANICAL

Dimensions:

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</td>

SHELVES

125V 19" 5-module P/N: 030-769-20 220V 19" 5-module P/N: 030-768-20

Dimensions:

Weight:.....8.5kg (19lbs)

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

Fits 23" rack center mount only

Connections:

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

Output:Bus adapters with 3/8" studs on 1" centers

Chassis ground:.....Compression lug

6 to 16mm² (10 to 6AWG)

CAN communication:.....RJ12 offset

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 EN 61000-3-3

Immunity: 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

IEC TS 61000-6-5 Immunity for power station

and substation environments



Typical 26.4kW Shelf

Alpha Technologies Ltd.

For more information visit www.alpha.ca

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