

Cordex™ 1.1kW

125/220V Modular Switched Mode Rectifier



CXRC 125-1.1kW

- Available in 8.8A @ 125VDC or 5A @ 220VDC
- Power limiting and wide range AC input
- 93% efficiency with power factor correction
- Convection cooled
- 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 Cordex 1.1kW is a compact 4RU allowing five rectifiers and a controller per 19" shelf. In addition to a range of standard features, the convection cooling will maintain ideal operating temperatures in the often dusty environments of utility applications.

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 1.1kW Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage	
Nominal:	208 to 277VAC
Operating:	176 to 320VAC
Extended:	176 to 150VAC (derated to 75%)
Input frequency:	45 to 66Hz
Power output:	1100W continuous/module
Power factor:	>0.99 (input current)
THD:	<5%
Efficiency:	>93%
Output voltage	
125VDC Model:	90 to 160VDC
220VDC Model:	180 to 320VDC
Output current	
125VDC Model:	8.8A @ 125VDC (11A max)
220VDC Model:	5A @ 220VDC
Load regulation:	Static <±0.5%
Line regulation:	Static <±0.1%
Transient response:	<±2% for 50 to 100% load step, 10ms recovery time
Wide band noise:	<30mVrms <150mVp-p
Insulation:	2.5kVAC Input-Earth 3kVAC Input-Output 2kVAC Output-Earth 0.5kVAC Signals-Earth

Mechanical

Dimensions	
mm:	177H x 71W x 250D
inches:	6.9H x 2.8W x 9.8D
Weight:	2.9kg (6.4lb)

Features

Indicators:	AC mains OK—green LED Module OK—green LED Module alarm—red LED
Cooling:	Natural convection
Adjustments: (via CXC Controller)	Float and equalize voltage Battery test voltage High and low voltage alarms High voltage shutdown Current limit Start delay time Slope %
Protection:	Current limit/short circuit Input/output fuses Output high voltage shutdown Output power limiting Thermal foldback/shutdown Input transient AC low line foldback/shutdown AC high voltage shutdown Earth leakage alarm

Environmental

Temperature

Operation:	-40 to 50°C (-40 to 122°F) (up to 70°C/158°F power derated)
Storage:	-50 to 85°C (-58 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 4000m (-1640 to 13120ft)
Heat Dissipation:	<282 BTU per hour (max)

Shelves

Mechanical

19" shelf	
Dimensions	
mm:	177H x 444W x 303D
inches:	6.9H x 17.5W x 11.9D
Weight:	7.3kg (16lb)
Mounting:	Fits 19" rack flush mount Fits 19 or 23" centre mount

Standards

The Cordex 1.1kW is designed to meet the following:

Safety:	CSA C22.2 No 60950-1-03 UL 60950-1 1 st Edition CE marked IEC/EN 60950-1
EMC:	ETSI 300 386
Emissions:	CFR47 (FCC) Part 15 Class A ICES-03 Class A EN55022 (CISPR 22) Class A C-tick 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
Immunity:	