

Power

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:	208–277VAC
Operating:	176–320VAC
Extended:	150–176VAC (derated to 75%)
Input frequency:	45–66Hz
Power output:	1100W continuous/module
Power factor:	>0.99 (input current)
THD:	<5%
Efficiency:	>93%
Output voltage	
125VDC Model:	90–160VDC
220VDC Model:	180–320VDC
Output current	
125VDC Model:	8.8A @ 125VDC (11A max)
220VDC Model:	5A @ 220VDC
Load regulation:	Static <±0.5%
	Dynamic <±1% for 10–90% load step
Line regulation:	Static <±0.1%
	Dynamic <±1% for any change within rated limits
Wide band noise:	<15mVrms
	<80mVp-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:	Float and equalize voltage
(via CXC	Battery test voltage
Controller)	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:	-40–50°C (-40–122°F)
	(up to 70°C/158°F power derated)
Storage:	-50–85°C (-58–185°F)
Humidity:	0–95% RH non-condensing
Elevation:	-500–4000m (-1640–13120ft)
Heat Dissipation:	<282BTU 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/center mount
(6 modules)	
23" shelf	Consult factory

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
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

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