

Power

Cordex™ 1.1kW

125Vdc Modular Switched Mode Rectifier



- > 8.8A output @ 125Vdc
- > 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 your DC power supply systems. 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 data centres, broadband headends, large utility, industrial uses and large telecommunication switch sites. High DC voltages enable remote powering for telecom applications with reduced voltage drop on the feeding cables.

The Cordex 1.1kW is a compact 4RU allowing five rectifiers 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 internet technology, complete configuration and monitoring of power equipment is possible through a Windows Internet Explorer Browser.

Cordex™ 1.1kW 125Vdc Modular Switched Mode Rectifier

Part Number: 010-579/616-20

Electrical

Input voltage:	
Nominal:	208 to 277Vac
Operating:	176 to 320Vac
Extended:	176 to 150Vac (de-rated to 75%)
Input frequency:	45 to 66Hz
Power output:	1100W continuous/module
Power factor:	>0.99 (input current)
THD:	<5%
Efficiency:	>93%
Output voltage:	90 to 180Vdc
Output current:	8.8A @ 125Vdc (11A max)
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

Performance / Features

Indicators:	AC mains OK — green LED Module OK — green LED Module alarm — red LED
Cooling:	Natural convection
Adjustments:	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

Mechanical

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

Environmental

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

Shelves

P/N: 030-740/824-20

>19" shelf (6 module)

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

Connections:

Input:	Terminal blocks for 3 feeds 4 – 6mm ² (12 – 10AWG)
Output:	¼" studs on "centers
Chassis ground:	¼" stud
CAN communication:	RJ 12 offset

Agency Compliance

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 (Australia) 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