

Power

Cordex™ 1kW

Modular Switched Mode Rectifier



CXRC 48-1kW

- Available in 21A @ 48VDC
- Power limiting and wide range AC input
- 92% efficiency and 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.

The Cordex 1kW integrated 19" or 23" shelf systems with distribution is ideal for applications with lower power requirements. A compact 4RU design allows five rectifiers plus controller or six rectifiers per 19" shelf for bulk power needs.

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 1kW Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage	
Nominal:	208 to 277VAC
Operating:	150 to 320VAC
Extended:	150 to 90VAC (derated power)
Input frequency:	45 to 66Hz
Power output:	1000W continuous/module
Power factor:	>0.99
Efficiency:	>91% (50-100% load)
Output voltage:	42 to 60VDC
Output current:	18.5A @ 54VDC (20.8A maximum)
Load regulation:	<±0.5% (static)
Line regulation:	<±0.1% (static)
Transient response:	±1% for 40 to 90% load step, 2ms recovery time

Noise

Voice band:	<32dBnC
Wide band:	<5mVrms
	<100mVpk to pk

Psophometric:

<1mV

Mechanical

Dimensions	
mm:	177H x 71W x 250D
inches:	6.9H x 2.8W x 9.8D
Weight:	3.2kg (7.1lb)

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 timers Slope %
Protection:	Current limit/short circuit Start delay Input/output fuses Output high voltage shutdown Output power limiting Thermal foldback/shutdown Input transient AC low line foldback/shutdown AC high voltage shutdown



Typical 4kW 23" Integrated Shelf System

Environmental

Temperature	
Operation:	-40 to 50°C (-40 to 122°F) (with short periods up to 70°C/158°F)
Storage:	-40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 4000m (-1640 to 13120ft)
Heat dissipation:	<295 BTU per hour

Shelves

Mechanical

19"/23" shelf

Dimensions	
mm:	177H x 544W x 303D
inches:	6.9H x 21.4W x 11.9D
Weight:	10.2kg (22.5lb)
Mounting:	Fits 19" or 23" rack center mount

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

Note: Consult factory for other shelf configurations.

Connections

Input:	Dual feed terminal blocks 4 to 6mm ² (12 to 10AWG)
Output:	¼" studs on ½" centers
Chassis ground:	¼" stud
CAN communication:	RJ 12 offset

Standards

The Cordex 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 B ICES-03 Class B EN55022 (CISPR 22) Class B 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 EN 61000-4-11 ANSI/IEEE C62.41 Cat B3
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 EN 61000-4-11 ANSI/IEEE C62.41 Cat B3

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#048-630-10 (07/2007)

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