

# Power

## Cordex™ 1kW

Modular Switched Mode Rectifier



CXRC 48-1kW

- Available in 20.8 Amps @ 48VDC
- 1kW output power per module
- Wide range AC input
- Optimized for Cordex range of controllers
- High efficiency with power factor correction
- Hot swappable, ultra compact design allows one to six rectifiers per 19" / 4 RU shelf
- Convection cooled

The Cordex series features the newest innovations in power technology available today. Expert engineering combines the best in efficiency and reliability into one compact unit. The Cordex 1kW rectifier meets the power requirements for an array of equipment.

Cordex rectifiers are designed to operate seamlessly with the Cordex CXC System Controller making local or remote rectifier setup, adjustment, and control a simple single-step process. Unique IP technology allows complete configuration and monitoring via an Ethernet connection.

Cordex has unique power limiting functionality and advanced power switching capability. Hot swappability and complete front-accessibility ensure easy installation and maintenance.

## SPECIFICATIONS

## Rectifier Module(s)

**ELECTRICAL**

Input voltage	
Nominal:	208 to 240 VAC
Operating:	176 to 320 VAC
Extended:	150 to 176 VAC (derated to 75%)
Input frequency:	45 to 66Hz
Power output:	1000W continuous/module
Power factor:	>0.99
Efficiency:	>91%
Output voltage:	40.5 to 58 VDC
Output current:	18.5A @ 54 VDC (20.8A maximum)
Load regulation:	Static < +/-0.5% Dynamic < +/-2% for 10% to 90% load step 2ms recovery time
Line regulation:	Static < +/-0.1% Dynamic < +/-1% for any change within rated limits
Psophometric noise:	< 26dBmC (<0.5mVrms)
Wide band noise:	< 5mVrms < 100mVp-p
<b>MECHANICAL</b>	
Dimensions	
mm:	177 H x 71 W x 250 D
inches:	6.9 H x 2.8 W x 9.8 D
Weight:	2.9 kg (6.4 lb.)
<b>FEATURES</b>	
Indicators:	AC mains OK - green LED Module OK - green LED Module alarm - red LED
Cooling:	Natural convection

**FEATURES CONT'D**

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

## Shelves

**MECHANICAL**

<b>19" shelf:</b>	
Dimensions	
mm:	177 H x 444 W x 303 D
inches:	6.9 H x 17.5 W x 11.9 D
Weight:	7.3 kg (16 lb.)
Mounting: (6 modules)	Fits 19" rack flush/center mount
<b>23" shelf:</b>	Consult factory for detailed information.

## Environmental

Temperature Operation:	-40° to 50°C (-40° to 122°F) (with short periods up to 70°C/ 158°F)
Storage:	-50° to 85°C (-58° to 185°F)
Humidity:	0 to 95% R.H. non-condensing
Elevation:	-500 to 4000m (-1640 to 13120 ft)

## Standards

Safety:	CSA C22.2 N° 60950-1-03 UL 60950-1 1 <sup>st</sup> Edition 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
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 CE marked

For more information and detailed drawings, visit [argusdcpower.com](http://argusdcpower.com)

Canada  
United States

Argus Technologies Ltd. Vancouver, BC, Canada Tel: 604 436 5900 Fax: 604 436 1233  
Argus Technologies Inc. Bellingham, WA, USA Tel: 360 671 7054 Fax: 360 671 7096

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