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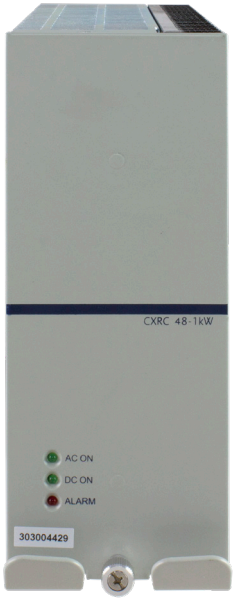
Cordex® 1kW

48VDC Modular Switched Mode Rectifier



- Available in 20.8A @ 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 48VDC Modular Switched Mode Rectifier

P/N: 010-566-20

Electrical	
Input Voltage:	**Nominal:** 208 to 277VAC **Operating:** 150 to 320VAC **Extended:** 90 to 150VAC (de-rated power)
Input Frequency:	45 to 66Hz
Power Factor:	>0.99
Efficiency:	>92%
Power Output:	1000W continuous/module
Output Voltage:	42 to 60VDC
Output Current:	18.5A @ 54VDC (20.8A max)
Load Regulation:	<±0.5% (static)
Line Regulation:	<±0.1% (static)
Transient Response:	±1% for 50 to 100% load step, 2ms recovery time
Noise:	**Voice band:** <32dBrnC **Wide band:** <5mVrms <100mVp-p
Psophometric:	<1mV
Performance / Features	
Indicators:	AC mains OK — green LED Module OK — green LED Module alarm — red LED
Cooling:	Natural convection
Adjustments (via CXC HP 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

Shelves	
19"/23"	
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"	
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 6mm² (12 to 10AWG) **Output:** ¼" studs on ⅝" centers **Chassis Ground:** ¼" stud **CAN Communication:** RJ 12 offset
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) (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
Agency Compliance	
The Cordex™ 1kW is designed to meet the following:	
Safety:	• CSA C22.2 No 60950-1-03 • UL 60950-1 1st 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 **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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Alpha Technologies Services, Inc. USA: 3767 Alpha Way, Bellingham, WA 98226 Canada: 7700 Riverfront Gate, Burnaby, BC V5J 5M4
Toll Free North America: +1 800 322 5742 Outside US: +1 360 647 2360 Technical Support: +1 800 863 3364
For more information visit **www.alpha.com**