



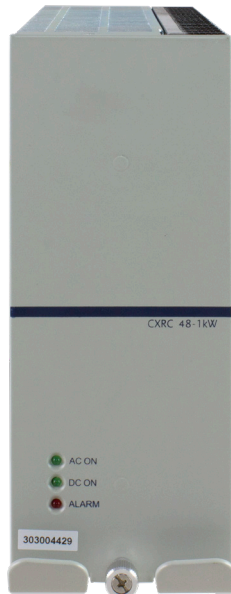
an EnerSys® company

# Cordex® 1kW

## 48VDC Modular Switched Mode Rectifier

Distributed in Australia by:

**Alpha**  
Power Systems



- 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	
<b>Input Voltage:</b>	<b>Nominal:</b> 208 to 277VAC <b>Operating:</b> 150 to 320VAC <b>Extended:</b> 90 to 150VAC (de-rated power)
<b>Input Frequency:</b>	45 to 66Hz
<b>Power Factor:</b>	>0.99
<b>Efficiency:</b>	>92%
<b>Power Output:</b>	1000W continuous/module
<b>Output Voltage:</b>	42 to 60VDC
<b>Output Current:</b>	18.5A @ 54VDC (20.8A max)
<b>Load Regulation:</b>	<±0.5% (static)
<b>Line Regulation:</b>	<±0.1% (static)
<b>Transient Response:</b>	±1% for 50 to 100% load step, 2ms recovery time
<b>Noise:</b>	<b>Voice band:</b> <32dBmC <b>Wide band:</b> <5mVrms <100mVp-p
<b>Psophometric:</b>	<1mV
Performance / Features	
<b>Indicators:</b>	AC mains OK — green LED Module OK — green LED Module alarm — red LED
<b>Cooling:</b>	Natural convection
<b>Adjustments (via CXC HP Controller):</b>	<ul style="list-style-type: none"> <li>• Float and equalize voltage</li> <li>• Battery test voltage</li> <li>• High and low voltage alarms</li> <li>• High voltage shutdown</li> <li>• Current limit</li> <li>• Start delay timers</li> <li>• Slope %</li> </ul>
<b>Protection:</b>	<ul style="list-style-type: none"> <li>• Current limit/short circuit</li> <li>• Start delay</li> <li>• Input/output fuses</li> <li>• Output high voltage shutdown</li> <li>• Output power limiting</li> <li>• Thermal foldback/shutdown</li> <li>• Input transient</li> <li>• AC low line foldback/shutdown</li> <li>• AC high voltage shutdown</li> </ul>

Shelves	
19" / 23"	
<b>Dimensions:</b>	<b>mm:</b> 177H x 544W x 303D <b>inches:</b> 6.9H x 21.4W x 11.9D
<b>Weight:</b>	10.2kg (22.5lb)
<b>Mounting:</b>	Fits 19" or 23" rack center mount
19"	
<b>Dimensions:</b>	<b>mm:</b> 177H x 444W x 303D <b>inches:</b> 6.9H x 17.5W x 11.9D
<b>Weight:</b>	7.3kg (16lb)
<b>Mounting:</b>	Fits 19" rack flush mount
Note: Consult factory for other shelf configurations.	
<b>Connections:</b>	<b>Input:</b> Dual feed terminal blocks 4 to 6mm <sup>2</sup> (12 to 10AWG) <b>Output:</b> ¼" studs on ½" centers <b>Chassis Ground:</b> ¼" stud <b>CAN Communication:</b> RJ 12 offset
Mechanical	
<b>Dimensions:</b>	<b>mm:</b> 177H x 71W x 250D <b>inches:</b> 6.9H x 2.8W x 9.8D
<b>Weight:</b>	2.9kg (6.4lbs)
Environmental	
<b>Temperature:</b>	<b>Operation:</b> -40 to 50°C (-40 to 122°F) (with short periods up to 70°C/158°F) <b>Storage:</b> -40 to 85°C (-40 to 185°F)
<b>Humidity:</b>	0 to 95% RH non-condensing
<b>Elevation:</b>	-500 to 4000m (-1640 to 13120ft)
<b>Heat Dissipation:</b>	<295 BTU per hour
Agency Compliance	
The Cordex™ 1kW is designed to meet the following:	
<b>Safety:</b>	<ul style="list-style-type: none"> <li>• CSA (22.2 No 60950-1-03)</li> <li>• UL 60950-1 1st edition</li> <li>• CE marked</li> <li>• IEC/EN 60950-1</li> </ul>
<b>EMC:</b>	ETSI 300 386 <b>Emissions:</b> <ul style="list-style-type: none"> <li>• CFR47 (FCC) Part 15 Class B</li> <li>• ICES-03 Class B</li> <li>• EN55022 (CISPR 22) Class B</li> <li>• C-Tick (Australia)</li> <li>• EN 61000-3-2</li> <li>• EN 61000-3-3</li> </ul> <b>Immunity:</b> <ul style="list-style-type: none"> <li>• EN 61000-4-2</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-4</li> <li>• EN 61000-4-5</li> <li>• EN 61000-4-6</li> <li>• EN 61000-4-11</li> <li>• ANSI/IEEE C62.41 Cat B3</li> <li>• EN 61000-4-11</li> <li>• ANSI/IEEE C62.41 Cat B3</li> </ul>

For more information, please contact Australian Distributor:



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