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# Cordex® 1.1kW

## Modular Switched Mode Rectifier



- Switch mode rectifier provides 8.8A output @ 125VDC or 5A @ 220VDC
- Power limiting and wide range AC input
- 93% peak efficiency with 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.**

This rectifier is specifically designed to recharge all types of stationary batteries for large utility, petrochemical and industrial uses.

The Cordex® 1.1kW is a compact 4RU allowing six 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 technology, complete configuration and monitoring of power equipment is possible through a network web browser.

# Cordex® 1.1kW Modular Switched Mode Rectifier

125V P/N: 010-579-20-041

220V P/N: 010-569-20-041

Electrical	
<b>Input Voltage:</b>	<b>Nominal:</b> 208 to 240VAC <b>Operating:</b> 85 to 320VAC <b>Extended:</b> 150 to 176VAC (de-rated to 75%)
<b>Input Frequency:</b>	45 to 70Hz
<b>Power Output:</b>	1100W continuous/module
<b>Power Factor:</b>	>0.99 (input current)
<b>THD:</b>	<5%
<b>Efficiency:</b>	>93% peak nominal conditions
<b>Output Voltage:</b>	125V: 90 to 160VDC 220V: 180 to 320VDC
<b>Output Current:</b>	125V: 8.8A @ 125VDC (11A max) 220V: 5A @ 220VDC (5.5A max)
<b>Load Regulation:</b>	Static <±0.7%
<b>Line Regulation:</b>	Static <±0.1%
<b>Transient Response:</b>	<±2% for 40 to 90% load step, 20ms recovery time
<b>Wide Band Noise:</b>	<ul style="list-style-type: none"> <li>&lt;30mVrms</li> <li>&lt;150mVp-p</li> </ul>
<b>Insulation:</b>	<ul style="list-style-type: none"> <li>2.5kVAC input-earth</li> <li>3kVAC input-output</li> <li>2kVAC output-earth</li> <li>0.5kVAC signals-earth</li> </ul>
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 controller):</b>	<ul style="list-style-type: none"> <li>Floot and equalize voltage</li> <li>Battery test voltage</li> <li>High and low voltage alarms</li> <li>Current limit</li> <li>Start delay time</li> </ul>
<b>Protection:</b>	<ul style="list-style-type: none"> <li>Current limit/short circuit</li> <li>Input 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> <li>Earth leakage alarm</li> </ul>

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>	125V: 3.2kg (7.1lbs) 220V: 2.9kg (6.4lbs)	
Environmental		
<b>Temperature:</b> (Based on 3 modules installed)	<b>125V</b>	<b>Operation:</b> -40 to 42°C (-40 to 107.6°F) <b>Extended:</b> 65°C/149°F 600W <b>Storage:</b> -50 to 85°C (-58 to 185°F)
	<b>220V</b>	<b>Operation:</b> -40 to 48°C (-40 to 118.4°F) <b>Extended:</b> 65°C/149°F 600W <b>Storage:</b> -50 to 85°C (-58 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>	125V: <400 BTU per hour (max)/117 Watts 220V: <282 BTU per hour (max)/83 Watts	
Shelves		
<b>P/N: 030-740-20</b>		
<b>19" shelf (6 module)</b>		
<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 (16lbs)	
<b>Mounting:</b>	<ul style="list-style-type: none"> <li>Fits 19" rack flush mount</li> <li>Fits 19" or 23" center mount</li> </ul>	
<b>Connections:</b>	<b>Input:</b> Terminal blocks for 3 feeds 4 – 6mm <sup>2</sup> (12 – 10AWG) <b>Output:</b> ¼" studs on ¾" centers <b>Chassis Ground:</b> ¼" stud <b>CAN Communication:</b> RJ 12 offset	
Agency Compliance		
<b>Cordex® 1.1kW is designed to meet the following:</b>		
<b>Safety:</b>	<ul style="list-style-type: none"> <li>CSA C22.2 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 A</li> <li>ICES-03 Class A</li> <li>EN55022 (CISPR 22) Class A</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> </ul>	



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