

# Cordex™ 1.1kW

125Vdc Modular Switched Mode Rectifier



Your Power Solutions Partner

- Switch mode rectifier provides 8.8A output @ 125Vdc
- Power limiting and wide range AC input
- 93% 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.



Power



# Cordex™ 1.1kW 125Vdc Modular Switched Mode Rectifier

Part Number: 010-579-20-041

## ELECTRICAL

**Input voltage:**  
 Nominal:.....208 to 240Vac  
 Operating:.....176 to 320Vac  
 Extended:.....150 to 176Vac (de-rated to 75%)  
**Input frequency:**.....44 to 70Hz  
**Power output:**.....1100W continuous/module  
**Power factor:**.....>0.99 (input current)  
**THD:**.....<5%  
**Efficiency:**.....>93%  
**Output voltage:**.....90 to 160Vdc (158Vdc float)  
**Output current:**.....8.8A @ 125Vdc (11A max)  
**Load regulation:**.....Static <±0.5%  
**Line regulation:**.....Static <±0.1%  
**Transient response:**.....<±2% for 40 to 90% load step,  
 10ms recovery time  
**Wide band noise:**.....<30mVrms  
 <150mVp-p  
**Insulation:**.....2.5kVac input-earth  
 3kVac input-output  
 2kVac output-earth  
 0.5kVac signals-earth

## PERFORMANCE / FEATURES

**Indicators:**.....AC mains OK — green LED  
 Module OK — green LED  
 Module alarm — red LED  
**Cooling:**.....Natural convection  
**Adjustments:**.....Float and equalize voltage  
 (via CXC controller) Battery test voltage  
 High and low voltage alarms  
 Current limit  
 Start delay time  
**Protection:**.....Current limit/short circuit  
 Input fuses  
 Output high voltage shutdown  
 Output power limiting  
 Thermal foldback/shutdown  
 Input transient  
 AC low line foldback/shutdown  
 AC high voltage shutdown  
 Earth leakage alarm

## MECHANICAL

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

## ENVIRONMENTAL

**Temperature:**  
 Operation:.....-40 to 50°C (-40 to 122°F)  
 Extended:.....65°C/149°F 600W  
 Storage:.....-50 to 85°C (-58 to 185°F)  
**Humidity:**.....0 to 95% RH non-condensing  
**Elevation:**.....-500 to 4000m (-1640 to 13120ft)  
**Heat dissipation:**.....<400 BTU per hour (max) module

## SHELVES

**P/N: 030-740-20**

### > 19" shelf (6 module)

**Dimensions:**  
 mm:.....309H x 434W x 302D  
 inches:.....12.2H x 17.1W x 11.9D  
**Weight:**.....14.38kg (31.71lbs)  
**Mounting:**.....Fits 19" rack flush mount  
 Fits 19" or 23" center mount

### Connections:

Input:.....Terminal blocks for 3 feeds  
 4–6mm<sup>2</sup> (12–10AWG)  
 Output:.....¼" studs on ½" centers  
 Chassis ground:.....¼" stud  
 CAN communication:.....RJ 12 offset

## AGENCY COMPLIANCE

The Cordex™ 1.1kW is designed to meet the following:

**Safety:**.....CSA C22.2 No 60950-1-03  
 UL 60950-1 1<sup>st</sup> edition  
 CE marked  
 IEC/EN 60950-1  
**EMC:**.....ETSI 300 386  
 Emissions:.....CFR47 (FCC) Part 15 Class A  
 ICES-03 Class A  
 EN55022 (CISPR 22) Class A  
 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

Alpha Technologies Ltd.

For more information visit [www.alpha.ca](http://www.alpha.ca)

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233  
 United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

#0480027-00 Rev E (03/2018)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.  
 Copyright © 2018 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.  
 member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The Group™