

# Power

## Cordex™ 1.1kW

125Vdc Modular Switched Mode Rectifier



CXRC 125-1.1kW

- › 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 five 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 125Vdc Modular Switched Mode Rectifier

**Part Number: 010-579-20**

## Electrical

**Input voltage:**  
 Nominal: ..... 208 to 277Vac  
 Operating: ..... 176 to 320Vac  
 Extended: ..... 176 to 150Vac (de-rated to 75%)  
**Input frequency:** ..... 45 to 66Hz  
**Power output:** ..... 1100W continuous/module  
**Power factor:** ..... >0.99 (input current)  
**THD:** ..... <5%  
**Efficiency:** ..... >93%  
**Output voltage:** ..... 90 to 180Vdc  
**Output current:** ..... 8.8A @ 125Vdc (11A max)  
**Load regulation:** ..... Static <±0.5%  
**Line regulation:** ..... Static <±0.1%  
**Transient response:** ..... <±2% for 50 to 100% 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  
 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  
 Earth leakage alarm

## 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)  
 (up to 70°C/158°F power de-rated)  
 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:** ..... <282 BTU per hour (max)

## Shelves

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

### > 19" shelf (6 module)

**Dimensions:**  
 mm: ..... 177H x 444W x 303D  
 inches: ..... 6.9H x 17.5W x 11.9D  
**Weight:** ..... 7.3kg (16lbs)  
**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