

Power

Cordex™ 1.1kW

220Vdc Modular Switched Mode Rectifier



CXRC 220-1.1kW

- › Switch mode rectifier provides 5A output @ 220Vdc
- › 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.



Cordex™ 1.1kW 220Vdc Modular Switched Mode Rectifier

Part Number: 010-569-20

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: 180 to 320Vdc
 Output current: 5A @ 220Vdc (5.5A 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: 030-718-20

>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
 4–6mm² (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 1st 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