

Power

Cordex™ 650W

48Vdc Modular Switched Mode Rectifier



CXRC 48-650W

- › Available in 13.5A @ 48Vdc
- › Universal 120V/208 to 240V single phase AC input
- › Power limiting and wide range AC input
- › 91% efficiency and power factor correction
- › Convection cooled
- › Hot swappable, 2RU 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 650W rectifier is available in a choice of 19" or 23" shelf configurations. Either power system option comes complete with distribution, controller, and four rectifiers. With 2.6kW total output per shelf, it is an ideal solution to meet the needs of applications requiring lower power.

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™ 650W 48Vdc Modular Switched Mode Rectifier

120V model P/N: 010-571-20, Universal 120/240 model P/N: 010-570-20

Electrical

Input voltage (120Vac model):

Operating:90 to 140Vac (output power 650W)
 Extended:90 to 70Vac (de-rated output power)
 Power output:650W at nominal 120Vac

Input voltage (universal 100 to 240Vac model):

Operating:176 to 320Vac (output power 650W)
 Extended:176 to 90Vac (de-rated output power)
 Operating:100 to 140Vac (output power 500W)
 Power output:650W at nominal 208 to 240Vac & 500W at nominal 120Vac

Input frequency:45 to 70Hz

Power factor:>99%

THD:<5%

Efficiency:>91% (1% loss for 120Vac model)

Output voltage:42 to 58Vdc

Output current:12A @ 54Vdc (13.5A max)

Load regulation:Static <±0.5%
 Dynamic <±2% for 50 to 100% load step
 2ms recovery time

Line regulation:Static <±0.1%
 Dynamic <±1% for any change within rated limits

Wide band noise:<30mVrms
 <150mVp-p

Psophometric noise:<1mV

Performance / Features

Indicators:AC mains OK—green LED
 Module alarm—red LED

Cooling:Natural convection

Adjustments:Float and equalize voltage
 (via CXCI 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

Mechanical

Dimensions:

mm:88.4H x 71.6W x 242D

inches:3.4H x 2.8W x 9.5D

Weight:1.4kg (3lbs)

Environmental

Temperature:

Operation:-40 to 50°C (-40 to 122°F)
 (power de-rated up to 70°C/158°F)

Storage:-40 to 85°C (-40 to 185°F)

Humidity:0 to 95% RH non-condensing

Elevation:-500 to 3000m (-1640 to 9840ft)

Heat dissipation:<94 BTU per hour

Agency Compliance

The Cordex™ 650W 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 B
 ICES-03 Class B
 EN55022 (CISPR 22) Class B
 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