

Cordex™ 650W

48Vdc Modular Switched Mode Rectifier



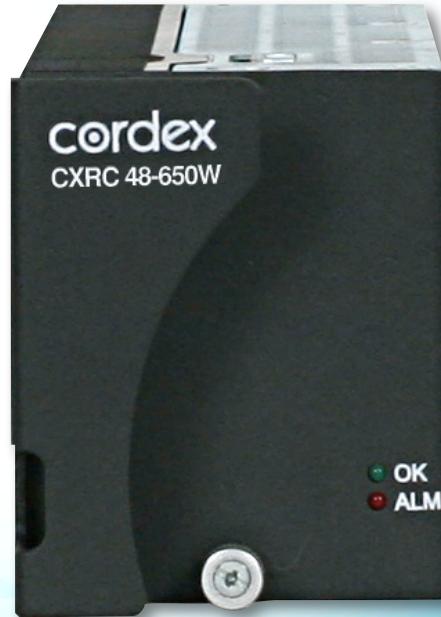
Your Power Solutions Partner

- Available in 13.5A @ 48Vdc (at nominal input voltage)
- 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 rectifier slots. With a maximum of 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.



Power



Cordex™ 650W 48Vdc Modular Switched Mode Rectifier

Universal 120/240 model P/N: 010-570-20-041

ELECTRICAL

Input voltage (universal 100 to 240Vac model):

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

Input frequency:.....45 to 50Hz

Power factor:.....>99%

THD:<5%

Efficiency:>91%

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 HP 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 65°C/149°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

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