

Cordex™ 250W

12Vdc Modular Switched Mode Rectifier



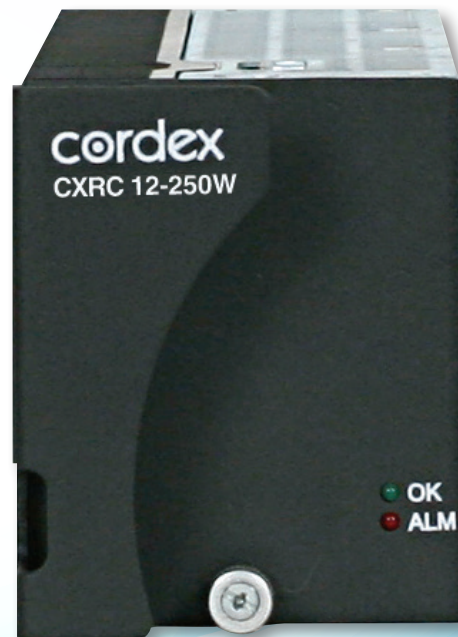
Your Power Solutions Partner

- Switched mode rectifier available in 20.8A @ 12Vdc
- Universal 120/208 to 240Vac input
- Power factor correction
- Convection cooled
- Hot swappable, 2RU ultra compact design

Cordex rectifiers bring advanced technology to DC power applications. Innovative engineering combines the best in efficiency and reliability meeting the power requirements for a variety of system applications.

The Cordex 250W rectifier is available in a 19" integrated shelf configuration, complete with distribution, controller, and capacity for four rectifiers. With 1kW total output per shelf, it is an ideal solution for applications requiring 12Vdc power.

Local and remote setup, adjustment and control is a simple, single-step process with the Cordex CXCI System Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.



Power



Cordex™ 250W 12Vdc Modular Switched Mode Rectifier

Part Number: 010-587-20

ELECTRICAL

Input voltage:90 to 320Vac
 Input frequency:.....45 to 70Hz
 Power factor:.....>99%
 THD:<5%
 Efficiency:>90%
 Power output:.....250W
 Output voltage: 10.5 to 14.5Vdc
 Output current: 18.5A @ 13.5Vdc (20A max)
 Load regulation:<±0.5% (static)
 Line regulation:<±0.1% (static)
 Transient response: ±2% for 50 to 100% load step
 2ms recovery time
 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

SHELVES

> 19" shelf
 Dimensions:
 mm:.....88.9H x 444W x 279.4D
 inches:3.5H x 17.5W x 11D
 Weight:.....8.5kg (18.7lbs)
 Mounting:Fits 19" rack flush/center mount
 Fits 23" rack center mount

Note: Consult factory for other 12" and 19" shelf configurations.

Connections:

Input:.....Dual feed terminal blocks
 4 to 6mm² (12 to 10AWG)
 Output:.....1/4" studs on 5/8" centers
 Chassis ground:.....1/4" stud
 CAN communication:RJ 12 offset

AGENCY COMPLIANCE

THE CORDEX™ 250W 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

NEBS/Telcordia:GR-1089-CORE
 GR-63-CORE
 GR-3108-CORE

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