

CORDEX[®] 250W

12VDC MODULAR SWITCHED MODE RECTIFIER

OVERVIEW

Switched mode rectifier available in 20.8A @ 12Vdc

Universal 120/208 to 240Vac input

Power factor correction

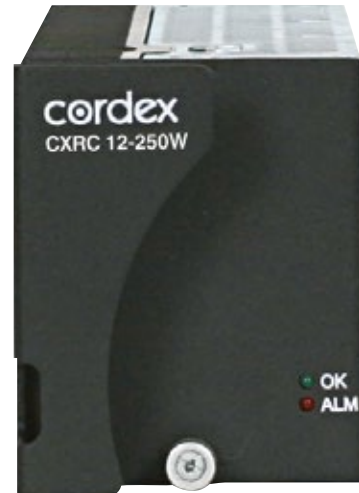
Convection cooled

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.



CORDEX® 250W 12VDC MODULAR SWITCHED MODE RECTIFIER

ELECTRICAL

Input Voltage:	Nominal: 90 to 320Vac Extended: 70 to 90Vac (de-rated output power)
Input Frequency:	45 to 70Hz
Power Output:	250W
Power Factor:	>0.99
THD:	<5%
Efficiency:	>90%
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 (via CXCI Controller):	Float and equalize voltage 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 (H x W x D):	88.4 x 71.6 x 242mm 3.4 x 2.8 x 9.5in
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 3,000m (-1,640 to 9,840ft)
Heat dissipation:	<94 BTU per hour/28W

SHELVES

19" shelf

Dimensions (H x W x D):	177 x 442 x 389mm 7 x 17.4 x 15.3in
Weight:	8.5kg (18.7lbs)
Mounting:	Fits 19" rack flush/center mount (5 modules) Fits 23" center mount only

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

Connections:	Input: Dual feed terminal blocks 4 to 6mm ² (12 to 10AWG) Output: ¼" studs on ½" centers Chassis Ground: ¼" stud CAN Communication: RJ 12 offset
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STANDARDS AND CERTIFICATION

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: ICES-03 Class B, EN55022 (CISPR 22) Class B, C-Tick (Australia), EN 61000-3-2, EN 61000-3-3 Immunity: 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

PRODUCT NUMBER

010-587-20



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