

Power

Cordex™ 250W

Modular Switched Mode Rectifier



CXRC 12-250W

- 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 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 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 Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage:	90 to 320VAC
Power output:	250W
Input frequency:	45 to 70Hz
Power factor:	>99%
THD:	<5%
Efficiency:	>85% @ 204-240VDC (>84% @ 120VDC)
Output voltage:	10.5 to 14.5VDC
Output current:	18.5A @ 13.5VDC (20A max.)
Load regulation:	<±1.5% (static)
Line regulation:	<±0.1% (static)
Transient Repsonse:	±10% for 50 to 100% load step, 10ms recovery time
Wide band noise:	<10mVrms
Psophometric noise:	<100mVp-p <2mV

Mechanical

Dimensions	
mm:	88.4H x 71.6W x 242D
inches:	3.4H x 2.8W x 9.5D
Weight:	1.4kg (3lb)

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

Environmental

Temperature	
Operation:	-40 to 50°C (-40 to 122°F) (power derated 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:	<150 BTU per hour

Shelves

Mechanical

19" shelf

Dimensions	
mm:	88.9H x 444W x 279.4D
inches:	3.5H x 17.5W x 11D
Weight:	8.5kg (18.7lb)
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 6mm ² (12 to 10AWG)
Output:	¼" studs on ½" centers
Chassis ground:	¼" stud
CAN communication:	RJ 12 offset

Standards

The Cordex 250W is designed to meet the following:

Safety:	CSA C22.2 No 60950-1-03 UL 60950-1 1 st 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 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11
Immunity:	ANSI/IEEE C62.41 Cat B3

For more information visit www.argusdcpower.com

Argus Technologies Canada Burnaby, British Columbia Tel: 604 436 5900 Fax: 604 436 1233
United States Bellingham, Washington Tel: 360 647 2360 Fax: 360 671 4936

#048-644-10 (07/2006)

Argus Technologies reserves the right to make changes to the products and information contained in this document without notice.

Copyright © 2006 Argus Technologies. All Rights Reserved. Argus® is a registered trademark of Argus Technologies. member of The Alpha Group™ is a trademark of Alpha Technologies. Cordex™ is a trademark of Argus Technologies.