

Power

Cordex™ 650W

Modular Switched Mode Rectifier



CXRC 48-650W

- Available in 13.5A @ 48VDC
- Universal 120V/20 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 Modular Switched Mode Rectifier

Rectifier Module(s)

Electrical

Input voltage (120VAC model)	
Operating:	90 to 140VAC (output power 650W)
Extended:	90 to 70VAC (derated output power)
Power output:	650W at nominal 120VAC
Universal input voltage (100 to 240VAC model)	
Operating:	176 to 320VAC (output power 650W)
Extended:	176 to 90VAC (derated 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 $\pm 0.5\%$ Dynamic $\pm 2\%$ for 50 to 100% load step 2ms recovery time
Line regulation:	Static $\pm 0.1\%$ Dynamic $\pm 1\%$ for any change within rated limits
Wide band noise:	<30mVrms
Psophometric noise:	<150mVp-p

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 CXC 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:	<219 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 mount

23" shelf

Dimensions	
mm:	133H x 533W x 279.4D
inches:	5.25H x 21W x 11D
Weight:	12.7kg (28lb)
Mounting:	Fits 23" rack center mount

Note: Consult factory for other 12", 19" or 23" 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 650W 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 ANSI/IEEE C62.41 Cat B3
Immunity:	

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