

CORDEX[®] 650W

48VDC MODULAR SWITCHED MODE RECTIFIER

OVERVIEW

Available in 13.5A @ 48Vdc (at nominal input voltage)

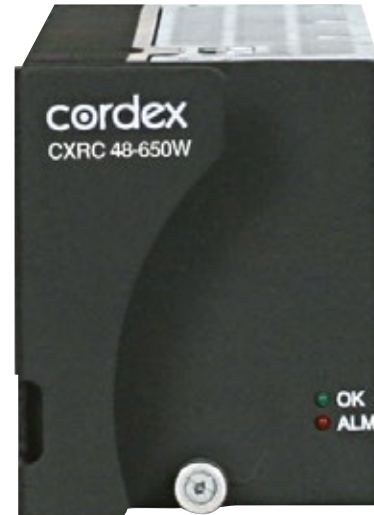
Universal 120V/208 to 240V single phase AC input

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.

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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 70Hz
Power Factor:	>0.99
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 (via CXCI HP 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 65°C/149°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

STANDARDS AND CERTIFICATION

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

PRODUCT NUMBER

010-570-20-04



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