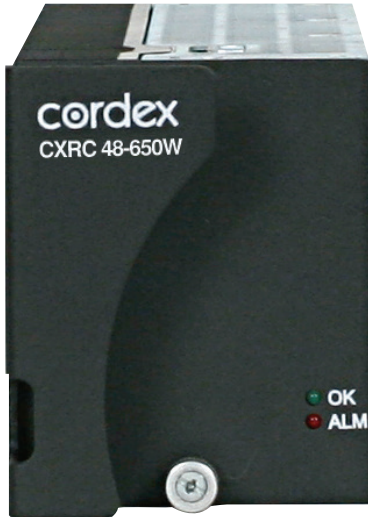




an EnerSys company

Cordex[®] 650W

48Vdc Modular Switched Mode Rectifier



- 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.

Cordex® 650W 48Vdc Modular Switched Mode Rectifier

03/2020

Universal 120/240 model P/N: 010-570-20-04

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:	>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):	<ul style="list-style-type: none"> • Float and equalize voltage • Battery test voltage • High and low voltage alarms • High voltage shutdown • Current limit • Start delay time • Slope %
Protection:	<ul style="list-style-type: none"> • 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 65°C/149°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/28 Watts
Agency Compliance	
The Cordex™ 650W is designed to meet the following:	
Safety:	<ul style="list-style-type: none"> • CSA C22.2 No 60950-1-03 • UL 60950-1 1st edition • CE marked • IEC/EN 60950-1
EMC:	ETSI 300 386 Emissions: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

