



an EnerSys company

Cordex[®] 1.1kW

Modular Switched Mode Rectifier



- Switch mode rectifier provides 8.8A output @ 125Vdc or 5A @ 220Vdc
- Power limiting and wide range AC input
- 93% peak efficiency with power factor correction
- Convection cooled
- Hot swappable, 4RU 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.

This rectifier is specifically designed to recharge all types of stationary batteries for large utility, petrochemical and industrial uses.

The Cordex 1.1kW is a compact 4RU allowing six rectifiers per 19" shelf. In addition to a range of standard features, the convection cooling will maintain ideal operating temperatures in the often dusty environments of utility applications.

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® 1.1kW Modular Switched Mode Rectifier

07/2020

125V P/N: 010-579-20-041

220V P/N: 010-569-20-041

Electrical	
Input Voltage:	Nominal: 208 to 240Vac Operating: 85 to 320Vac Extended: 150 to 176Vac (de-rated to 75%)
Input Frequency:	45 to 70Hz
Power Output:	1100W continuous/module
Power Factor:	>0.99 (input current)
THD:	<5%
Efficiency:	>93% peak nominal conditions
Output Voltage:	125V: 90 to 160Vdc 220V: 180 to 320Vdc
Output Current:	125V: 8.8A @ 125Vdc (11A max) 220V: 5A @ 220Vdc (5.5A max)
Load Regulation:	Static <±0.7%
Line Regulation:	Static <±0.1%
Transient Response:	<±2% for 40 to 90% load step, 20ms recovery time
Wide Band Noise:	<ul style="list-style-type: none"> <30mVrms <150mVp-p
Insulation:	<ul style="list-style-type: none"> 2.5kVac input-earth 3kVac input-output 2kVac output-earth 0.5kVac signals-earth
Performance / Features	
Indicators:	AC mains OK — green LED Module OK — green LED Module alarm — red LED
Cooling:	Natural convection
Adjustments (via CXC controller):	<ul style="list-style-type: none"> Floot and equalize voltage Battery test voltage High and low voltage alarms Current limit Start delay time
Protection:	<ul style="list-style-type: none"> Current limit/short circuit Input fuses Output high voltage shutdown Output power limiting Thermal foldback/shutdown Input transient AC low line foldback/shutdown AC high voltage shutdown Earth leakage alarm

Mechanical	
Dimensions:	mm: 177H x 71W x 250D inches: 6.9H x 2.8W x 9.8D
Weight:	125V: 3.2kg (7.1lbs) 220V: 2.9kg (6.4lbs)
Environmental	
Temperature: (Based on 3 modules installed)	125V Operation: -40 to 42°C (-40 to 107.6°F) Extended: 65°C/149°F 600W Storage: -50 to 85°C (-58 to 185°F)
	220V Operation: -40 to 48°C (-40 to 118.4°F) Extended: 65°C/149°F 600W Storage: -50 to 85°C (-58 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 4000m (-1640 to 13120ft)
Heat dissipation:	125V: <400 BTU per hour (max)/117 Watts 220V: <282 BTU per hour (max)/83 Watts
Shelves	
P/N: 030-740-20	
19" shelf (6 module)	
Dimensions:	mm: 177H x 444W x 303D inches: 6.9H x 17.5W x 11.9D
Weight:	7.3kg (16lbs)
Mounting:	<ul style="list-style-type: none"> Fits 19" rack flush mount Fits 19" or 23" center mount
Connections:	Input: Terminal blocks for 3 feeds 4 – 6mm ² (12 – 10AWG) Output: ¼" studs on ¾" centers Chassis Ground: ¼" stud CAN Communication: RJ 12 offset
Agency Compliance	
The Cordex™ 1.1kW 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 A ICES-03 Class A EN55022 (CISPR 22) Class A 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



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