



an EnerSys company

Cordex™ 250W

12Vdc Modular Switched Mode Rectifier



- Switched mode rectifier 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 DC power applications. 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 1 kW 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.

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07/2020

AMERICAS P/N: 010-587-20, EMEA P/N: 1000032525

Electrical	
Input Voltage:	Nominal: 90 to 320Vac Extended: 70 to 90Vac (de-rated output power)
Input Frequency:	45 to 70Hz
Power Factor:	>99%
THD:	<5%
Efficiency:	>90%
Power Output:	250W
Output Voltage:	10.5 to 14.5Vdc
Output Current:	18.5A @ 13.5Vdc (20A max)
Load Regulation:	<±0.5% (static)
Line Regulation:	<±0.1% (static)
Transient Response:	±2% for 50 to 100% load step 2ms recovery time
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 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 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:	<94 BTU per hour/28 Watts
Shelves	
19" shelf	
Dimensions:	mm: 88.9H x 444W x 279.4D inches: 3.5H x 17.5W x 11D
Weight:	8.5kg (18.7lbs)
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
Agency Compliance	
The Cordex™ 250W 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"> 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 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 ANSI/IEEE C62.41 Cat B3
NEBS/Telcordia:	<ul style="list-style-type: none"> GR-1089-CORE GR-63-CORE GR-3108-CORE



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