



an EnerSys company

Cordex™ 1kW

48Vdc Modular Switched Mode Rectifier



- Available in 20.8A @ 48Vdc
- Power limiting and wide range AC input
- 92% efficiency and 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.

The Cordex 1kW integrated 19" or 23" shelf systems with distribution is ideal for applications with lower power requirements. A compact 4RU design allows five rectifiers plus controller or six rectifiers per 19" shelf for bulk power needs.

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.

Electrical	
Input Voltage:	Nominal: 208 to 277Vac Operating: 150 to 320Vac Extended: 90 to 150Vac (de-rated power)
Input Frequency:	45 to 66Hz
Power Factor:	>0.99
Efficiency:	>92%
Power Output:	1000W continuous/module
Output Voltage:	42 to 60Vdc
Output Current:	18.5A @ 54Vdc (20.8A max)
Load Regulation:	<±0.5% (static)
Line Regulation:	<±0.1% (static)
Transient Response:	±1% for 50 to 100% load step, 2ms recovery time
Noise:	Voice band: <32dBmC Wide band: <5mVrms <100mVp-p
Psophometric:	<1mV
Performance / Features	
Indicators:	AC mains OK — green LED Module OK — green LED Module alarm — red LED
Cooling:	Natural convection
Adjustments (via CXC 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 timers • Slope %
Protection:	<ul style="list-style-type: none"> • Current limit/short circuit • Start delay • Input/output fuses • Output high voltage shutdown • Output power limiting • Thermal foldback/shutdown • Input transient • AC low line foldback/shutdown • AC high voltage shutdown

Shelves	
19"/23"	
Dimensions:	mm: 177H x 544W x 303D inches: 6.9H x 21.4W x 11.9D
Weight:	10.2kg (22.5lb)
Mounting:	Fits 19" or 23" rack center mount
19"	
Dimensions:	mm: 177H x 444W x 303D inches: 6.9H x 17.5W x 11.9D
Weight:	7.3kg (16lb)
Mounting:	Fits 19" rack flush mount
Note: Consult factory for other 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
Mechanical	
Dimensions:	mm: 177H x 71W x 250D inches: 6.9H x 2.8W x 9.8D
Weight:	2.9kg (6.4lbs)
Environmental	
Temperature:	Operation: -40 to 50°C (-40 to 122°F) (with short periods 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 4000m (-1640 to 13120ft)
Heat Dissipation:	<295 BTU per hour
Agency Compliance	
The Cordex™ 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 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 • EN 61000-4-11 • ANSI/IEEE C62.41 Cat B3



Worldwide Corporate Offices

Headquarter Germany

Hansastraße 8
D-91126 Schwabach
Tel: +49 9122 79889 0
Fax: +49 9122 79889 21
Mail: info@alpha-outback-energy.com

Eastern Europe

ee@alpha-outback-energy.com

Middle East

me@alpha-outback-energy.com

France and Benelux

fbnl@alpha-outback-energy.com

Spain

spain@alpha-outback-energy.com

Russia

russia@alpha-outback-energy.com

Africa

africa@alpha-outback-energy.com