

CXPS-E101

48VDC Power Systems

an EnerSys® company



- Integrated -48V power system packages in 225A or 100A configurations
- Ultra compact, high density design utilizing standard plug-in circuit breakers
- High efficiency design for reduced operating expenses
- High temperature rated, fan-cooled design for harsh outdoor installations
- Wide range AC input and IEC line cords for multiple AC services

Cordex[®] High-Performance (HP) rectifiers make a proven, reliable platform even better, with significant advancements in efficiency and performance.

Featuring a compact, fan-cooled design, HP rectifiers open the possibility to wider ranges of applications and immediate OPEX/CAPEX savings, reducing total cost of ownership and impact on the environment.

The CXPS-E 101 power system is the ideal solution for small to medium 48VDC applications, with configurations of 225A or 100A capacity. With universal 19/23" mounting, high temperature operation, compact height and 15" depth, it is a perfect solution for a wide variety of installation scenarios including those in harsh, outdoor environments.

The CXDM-E1 distribution center provides (10) plug-in breaker positions for load distribution, (2) battery breaker positions, integrated shunt and low voltage battery disconnect (LVBD). With the shunt positioned to measure battery current, a higher accuracy of battery float current is achieved while the system is able to report load current by calculation.

The CXPS-E101 power system can be easily integrated into customer provided relay racks or enclosures or can be ordered factory-installed into various Alpha relay rack configurations, including systems with pre-wired battery trays.

CXPS-E101 48VDC Power Systems

225A System Configuration P/N: 0540570-401 100A System Configuration P/N: 0540569-401

Features	
CXPS-E101 225A:	Up to 9x 48V-1.2kW rectifier positions
CXPS-E101 100A:	Up to 4x 48V-1.2kW rectifier positions
Distribution:	10x load breaker positions (plug-in style breaker) 2x battery breaker positions (plug-in style breaker) 225A Low voltage disconnect 200A Battery shunt
Controller:	CXCM1 Modular controller (included)
Electrical	
Input	
Voltage:	176 to 312VAC (nominal) 90 to 176VAC (de-rated O/P power)
Current:	7.5A max (176 to 300VAC) per module 6.0A max (90 to 176VAC) per module
Frequency:	45 to 66Hz
Efficiency:	>93% (50-100% load @ nominal voltage)
Power factor:	>.99
Output	
CXPS-E101 225A Capacity System:	225A max @ 48VDC (nominal I/P) 112.5A max @ 48VDC (115VAC input)
CXPS-E101 100A Capacity System:	100A max @ 48VDC (nominal I/P) 50A max @ 48VDC (115VAC input)
Rectifier:	25A max @ 48VDC (nominal I/P) 12.5A max @ 48VDC (115VAC) (subject to de-rating below 110VAC)
Power	
CXPS-E101 225A Capacity System:	10800W max @ 48VDC (nominal input) 5400W max @ 48VDC (115VAC input)
CXPS-E101 100A Capacity System:	4800W max @ 48VDC (nominal input) 2400W max @ 48VDC (115VAC input)

Mechanical	
CXPS-E101 225A Capacity Sys	tem
Dimensions:	mm: 133H x 438W x 381D inches: 5.25H x 17.24W x 15D
Weight:	System: 21.3kg (47lbs) Rectifier: 1.2kg (2.7lbs) each
CXPS-E101 100A Capacity Sys	tem
Dimensions:	mm: 90H x 438W x 381D inches: 3.5H x 17.24W x 15D
Weight:	System: 18.3kg (40.4lbs) Rectifier: 1.2kg (2.7lbs) each
Connnections	
Load Breaker:	10x sets, ¼" studs on ½" centers
Battery Breaker:	2x sets, 1/4" studs on 5%" centers
Return Bar:	13x sets, ¼" studs on ½" centers
Alarm:	Screw terminal 1.31mm² to 0.128mm² (#16 to #26 AWG)
Environmental	
Temperature:	-40 to 65°C (-40 to 149°F) -40 to 75°C (-40 to 167°F) de-rated output
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m; to 4000m with temperature de-rated to 40°C (-1640 feet to 9186 feet; to 13124 feet with temperature de-rated to 104°F) with de-rated output
Related Components	
Cordex CXRF 48-1.2kW Rectifier Module:	010-619-20-041
5-15P (120V) Line Cord, 2.5M: 877-690-1	9
Universal Line Cord, Flying Leads, 3.5M:	377-790-19
Temperature Sensor Assembly 12 ft, ¼" I	ug: 747-028-20-072
Temperature Sensor Assembly 12 ft, 3/8" l	ug: 747-082-20-072
Cordex CXCM1-HP: 0180054-001	

