

## Cordex<sup>®</sup> CXPS-C

## High Capacity Centralized Power System

an EnerSys® company



CXPS-C Plant with (8) x 4.6kW rectifier shelves (48 modules) next to a distribution bay

- -48 V centralized power solution for central office, mobile switching center, data center, and cable headend facilities
- Standalone –48 VDC rectifier bay option providing up to 5,000 A
- High efficiency Cordex<sup>®</sup> HP rectifier modules reduce operating costs
- Flexible circuit breaker, TPS and TPL fuse options designed to feed equipment or remote distribution systems
- Compact footprint dramatically reduces floor space requirements
- Expandable power and distribution bays allow for easy and cost effective modular growth
- With external buswork the system is capable of 12,000 A using the 4.6 kW rectifier module

## The Cordex<sup>®</sup> CXPS-C centralized power system provides high capacity DC power for large communications applications.

This system combines the capabilities of installation friendly distribution, advanced microprocessor based supervision, and rectifier modules in a seamless integrated package. Shunt monitoring provide single point monitoring of branch distribution with data logging features. The Cordex<sup>®</sup> CXPS-C centralized power system is cost effective due to the internal copper buswork, and is delivered ready to assemble with factory tested components. Cable access is from the top; for standard installations and bottom; (load circuits) for computer floor applications. Hot swappable Cordex<sup>®</sup> HP power modules and internal buswork provides a safe work environment with easy installation and maintenance.

## Cordex® CXPS-C High Capacity Centralized Power System

Consult your Alpha® product representative for PN configurations.

Electrical	
4.6 kW AC Input*	208 to 277 VAC single phase, up to 54 $\times$ 30 Å feeds per rectifier bay
	208 to 277 VAC 3 phase, 8 × 100 A feeds per rectifier bay or 16 × 50 A feeds per rectifier bay**
	480/277 VAC 3 phase, 8 $\times$ 50 A feeds per rectifier bay or 16 $\times$ 30 A feeds per rectifier bay <sup>***</sup>
Rectifier Voltage	208 or 480 VAC (with neutral)
12kW AC Input Voltage	480 VAC 3 phase, 8 $\times$ 50 Å feeds per rectifier bay or 16 $\times$ 30 Å feeds per rectifier bay
Rectifier Voltage	480 VAC (without neutral)
Internal Bus Capacity	4,000 A, 4,600 A, 5,000 A
Rectifier Bay Capacity	<ul> <li>Up to 5,000 A at -48 VDC</li> <li>Up to 4,600 A at -54 VDC</li> </ul>
Distribution Bay Capacity	6,000 A
Distribution Bay	
Each distribution bay can be equipped with a variety of different fuse/circuit breaker panels.	
TPL Fuses	<ul> <li>61 to 800 A</li> <li>4 fuse holders per panel</li> <li>6 fuse panels per bay</li> </ul>
TPS/TLS Fuses	<ul> <li>Up to 125 A</li> <li>18 fuse holders per panel</li> <li>12 fuse panels per bay</li> </ul>
Bolt-in Breakers	<ul> <li>1 pole up to 250 A</li> <li>2 pole 275 to 400 A</li> <li>3 pole 450 to 600 A</li> <li>4 pole 650 to 800 A</li> <li>5 pole 850 to 1,000 A</li> <li>6 pole 1,050 to 1,200 A</li> <li>12 breaker poles per ponel</li> <li>6 fuse panels per bay</li> </ul>
Plug-in Bullet Breakers	<ul> <li>1 pole up to 125 A</li> <li>2 pole 125 to 200 A</li> <li>3 pole 200 to 250 A</li> <li>18 breaker poles per panel</li> <li>12 panels per bay</li> </ul>



CXPS-W Plant with (9) x 4.6W rectifier shelves (54 modules)



**World Headquarters** 2366 Bernville Road Reading, PA 19605 USA +1 610-208-1991 / +1 800-538-3627

EnerSys EMEA EH Europe GmbH Baarerstrasse 18 6300 Zug Switzerland

EnerSys Asia No. 85, Tuas Avenue 1 Singapore, 639518 +65 6558 7333

For more information visit www.enersys.com © 2024 EnerSys. All Rights Reserved. Trademarks and logos are the property of EnerSys and its affiliates except for CSA® and UL® which are not the property of EnerSys.. Subject to revisions without prior notice. E.&O.E.

Mechanical	
Enclosure	14 gauge (1.095 mm) steel
Dimensions H × W × D	84 × 28 × 28 in. (213 × 71 × 71 mm)
Net Weight	Rectifier bay: Approximately 600 lb (272 kg) per bay (no modules) Distribution bay: Approximately 1,000 lb (454 kg) per bay
Mounting	Standard 23 inch relay rack (flush rack mount) in box bay
Environmental	
Operating Temperature	32 to 122°F (0 to 40°C)
Storage Temperature	-40 to 185°F (-40 to 85°C)
Relative Humidity	0 to 95% non-condensing
Elevation	Up to 6,562 ft (2,000 m)
Related Components	
Cordex® HP 48V 4.6 kW Rectifier Module	See datasheet #0480046-00 and the rectifier documentation for more detailed information.
Cordex® HP 48V 12 kW Rectifier Module	See datasheet #047-0259-00 and the rectifier documentation for more detailed information.
Cordex® CXC HP System Controller	See data sheet #0470170-00 and the controller documentation for detailed information on alarms and controls.
Load Disconnect	<ul> <li>Fuse/circuit breaker panel mounted option</li> <li>TPL + bolt-in panel 2,000 A rated</li> <li>Bullet breaker panel 600 A rated</li> </ul>
Smart Peripherals	
Cordex <sup>®</sup> Shunt Muliplexer Module	Shunt monitoring; 18 shunt inputs or 36 shunt inputs
Cordex $^{\otimes}$ HP L-ADIO Low Voltage Smart Peripheral	Provides analog and digital inputs and 12 Form C alarm output relays. See datasheet #047-0331-00 for more detailed information.
Cordex® HP 6i-ADIO Six Input Smart Peripheral	Provides six isolated shunt inputs. See datasheet #0470318-00 for more detailed information.
Cordex® HP Redundant Input Power Module	Provides multiple power inputs to power the system controller and ${\rm I}/{\rm O}$ peripherals.
Cordex® HP Shelf/Bay ID Peripheral	Provides bay and shelf location of rectifier modules in the system.
Remote Return Bar	
Mounting	2 inch auxiliary framing (customer supplied)
Termination	124 sets of 2 hole $\frac{1}{2}$ inch diameter on 1% inch centers or % inch diameter on 1 inch centers
Unit Capacity	4,000 A per bar
Ultimate Capacity	3 bar limit (12,000 A)
System Level Alarms and Controls	
LEDs	System status and alarms
Alarm Connections	14 to 22 AWG (0.34 to 2.5 mm <sup>2</sup> )
System Controller	Alarms/control parameters are user-programmable through built-in system controller.
Regulatory Compliance	
Safety	CSA C22.2 No. 62368-1 CSA/UL 62368-1
Notwerk Environment Duilding Contant (NEDC)	,
Network Equipment-Building Systems (NEBS)	NEBS Level 3 Certified

 $^{\star}$  Backwards compatible with 4.0kW rectifier

 $^{\star\star}$  48 rectifier modules maximum per power bay

\*\*\* 48 rectifier modules maximum per power bay

10/2024 #0470012-00 REV J

2