



an EnerSys® company

Cordex® CXPS-C

High Capacity Centralized Power System



- –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® 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® 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® 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® 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® representative for PN configurations.

Electrical	
4.6 kW AC Input	208 VAC single phase, up to 54 × 30 A feeds per rectifier bay
	208 VAC 3 phase, 8 × 100 A feeds per rectifier bay or 16 × 50 A feeds per rectifier bay
	480/277 VAC 3 phase, 8 × 50 A feeds per rectifier bay or 16 × 30 A feeds per rectifier bay
Nominal Rectifier Voltage	208 or 480 VAC (with neutral)
12kW AC Input Voltage	480 VAC 3 phase, 8 × 50 A feeds per rectifier bay or 16 × 30 A feeds per rectifier bay
Nominal Rectifier Voltage	480 VAC (without neutral)
Internal Bus Capacity	4,000 A, 5,000 A, 8,000 A, 12,000 A
Rectifier Bay Capacity	Up to 5,000 A at –48 VDC
	Up to 4,600 A at –54 VDC
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	• 61 to 800 A • 4 fuse holders per panel • 6 fuse panels per bay
TPS/TLS Fuses	• Up to 125 A • 18 fuse holders per panel • 12 fuse panels per bay
Bolt-in Breakers	• 1 pole up to 250 A • 2 pole 275 to 400 A • 3 pole 450 to 600 A • 4 pole 650 to 800 A • 5 pole 850 to 1,000 A • 6 pole 1,050 to 1,200 A • 12 breaker poles per panel • 6 fuse panels per bay
Plug-in Bullet Breakers	• 1 pole up to 125 A • 2 pole 125 to 200 A • 3 pole 200 to 250 A • 18 breaker poles per panel • 12 panels per bay
Mechanical	
Dimensions H × W × D	84 × 28 × 28 in. (213 × 711 × 711 mm)
Net Weight	4,000 A power bay (without rectifier modules): Approximately 855 lb (388 kg)
	5,000 A power bay (without rectifier modules): Approximately 960 lb (435 kg)
	Distribution bay: 950 lb (432 kg) filled with TPL fuses
Enclosure	14 gauge (1.095 mm) steel
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 4.0 kW Rectifier Module	See datasheet #0480003-00 and the rectifier documentation for more detailed information.
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.
EnVision™ Elite Touch Controller	See data sheet #0480098-00 and the controller documentation for detailed information on alarms and controls.
Cordex® CXC HP System Controller	See data sheet #0470170-00 and the controller documentation for detailed information on alarms and controls.
Load Disconnect	• Fuse/circuit breaker panel mounted option • TPL + bolt-in panel 2,000 A rated • Bullet breaker panel 600 A rated
Smart Peripherals	
Cordex® Shunt Multiplexer Module	Shunt monitoring; 18 shunt inputs or 36 shunt inputs
Cordex® 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 I/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 ½ inch diameter on 1¼ inch centers or ¾ 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 mm²)
Controller	Alarms/control parameters are user-programmable through built-in system controller.
Regulatory Compliance	
Safety	CAN/CSA C22.2 No. 62368-1
	UL 62368-1
EMC	FCC CFR47 Part 15/B - Class A
	CAN ICES-003(A)/NMB-003(A)
Network Equipment-Building Systems	NEBS Level 3 Certified
	Note that only the 4,000 A variant is NEBS Level 3 certified. Other variants are designed to meet NEBS Level 3.



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