



an EnerSys company

# CXPS-C

## High Capacity Centralized Power System



- -48V centralized power solution for MSC, CO, Data Center and Cable Headend facilities
- High efficiency Cordex modular rectifiers reduce operating costs
- Flexible circuit breaker, TPS and TPL fuse options designed to feed equipment or remote BDFBs
- Compact footprint dramatically reduces floor space requirements
- Expandable power and distribution bays allow for easy and cost effective modular growth
- With external busswork the system is capable of 20,000A using the 4kW rectifier

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### **The Cordex CXPS-C 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 modular rectifiers in a seamless integrated package. Shunt monitoring provide single point monitoring of branch distribution with data logging features.

The Cordex CXPS-C power system is cost effective due to the internal copper busswork, 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 power modules and internal busswork provides a safe work environment with easy installation and maintenance.

# CXPS-C 48V High Capacity Centralized Power System

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Consult your Alpha representative for P/N configurations

Electrical	
<b>4kW AC Input:</b>	<ul style="list-style-type: none"> <li>• 208Vac 3 phase, 8 x 100A feeds per rectifier bay or 16 x 50A feeds per rectifier bay</li> <li>• 480/277Vac 3 phase, 8x 50A feeds per rectifier bay or 16 x 30A feeds per rectifier bay</li> </ul>
<b>Rectifier Voltage:</b>	208 or 480Vac (w/neutral)
<b>12kW AC Input:</b>	480Vac 3 phase, 8 x 50A feeds per rectifier bay or 16 x 30A feeds per rectifier bay
<b>Rectifier Voltage:</b>	480Vac (w/o neutral)
<b>Internal Bus Capacity:</b>	4,000A, 8,000A, 12,000A
<b>Rectifier Bay Capacity:</b>	2,000A or 4,000A
<b>Distribution Bay Capacity:</b>	6,000A
Distribution Bay	
Each distribution bay may be equipped with a variety of different fuse/CB panels.	
<b>TPL Fuses:</b>	<ul style="list-style-type: none"> <li>• 61-800A</li> <li>• 4 fuse holders per panel</li> <li>• 6 fuse panels per bay</li> </ul>
<b>TPS/TLS Fuses:</b>	<ul style="list-style-type: none"> <li>• Up to 125A</li> <li>• 18 fuse holders per panel</li> <li>• 12 fuse panels per bay</li> </ul>
<b>Bolt-in Breakers:</b>	<ul style="list-style-type: none"> <li>• 1 pole up to 250A</li> <li>• 2 pole 275 to 400A</li> <li>• 3 pole 450 to 600A</li> <li>• 4 pole 650 to 800A</li> <li>• 5 pole 850 to 1000A</li> <li>• 6 pole 1050 to 1200A</li> <li>• 12 breaker poles per panel</li> <li>• 6 fuse panels per bay</li> </ul>
<b>Plug-in Bullet Breakers:</b>	<ul style="list-style-type: none"> <li>• 1 pole up to 125A</li> <li>• 2 pole 125 to 200A</li> <li>• 3 pole 200 to 250A</li> <li>• 18 breaker poles per panel</li> <li>• 12 panels per bay</li> </ul>
Mechanical	
<b>Enclosure:</b>	1.095mm (14 gauge) steel
<b>Mounting:</b>	Standard 23" relay rack (flush rack mount) in box bay
<b>Dimensions:</b>	<b>cm:</b> 213H x 71W x 71D <b>inches:</b> 84H x 28W x 28D
<b>Weight:</b>	<b>Rectifier bay:</b> Approx. 272kg (600lbs) per bay (no rectifiers) <b>Distribution bay:</b> Approx. 454kg (1000lbs) per bay

Environmental	
<b>Temperature:</b>	0 to 40°C (32 to 122°F)
<b>Humidity:</b>	0 to 95% RH non-condensing
<b>Elevation:</b>	-500 to 2800m (-1640 to 9186ft)
Related Components	
<b>Cordex 48-4kW Rectifier</b>	See 4kW datasheet #0480003-00 for more detailed information.
<b>Cordex 48-12kW Rectifier</b>	See 12kW datasheet #047-0259-00 for more detailed information.
<b>System Level Alarms/Controls</b>	Alarms/control parameters are user-programmable through built-in digital supervisory unit. See Cordex datasheet for detailed information on alarms and controls.
<b>Indicators:</b>	<ul style="list-style-type: none"> <li>• LCD with touch screen</li> <li>• System OK (green LED)</li> <li>• System minor alarm (yellow LED)</li> <li>• System major alarm (red LED)</li> </ul>
<b>Load Disconnect:</b>	<ul style="list-style-type: none"> <li>• Fuse/CB panel mounted option</li> <li>• TPL + bolt-in panel 2000A rated</li> <li>• Bullet breaker panel 600A rated</li> </ul>
Alarm:	
<b>Connections:</b>	0.34 to 2.5mm <sup>2</sup> (14 to 22AWG)
Smart Peripheral Modules:	
<b>Shunt Monitoring:</b>	18 shunt inputs or 36 shunt inputs
Remote Return Bar:	
<b>Mounting:</b>	2" Auxiliary framing (customer supplied)
<b>Termination:</b>	124 sets of 2 hole ½" dia. on 1¾" centers or ¾" dia. on 1" centers
<b>Unit Capacity:</b>	4,000A per bar
<b>Ultimate Capacity:</b>	3 bar limit (12,000A)
Agency Compliance	
<b>Safety:</b>	CSA C22.2 No. 60950-1
<b>NEBS:</b>	Level 3 certification

