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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

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

Consult your Alpha representative for P/N configurations

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

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



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