



an EnerSys® company

CXPS-HX

2500A-5000A Power System



- -48V Distributed power solution for CO's, MSC's, Data Center and Cable Headend facilities (DPCO)
- Each 2500A bay combines rectifiers, battery termination and distribution
- Dual bay kit links two 2500A bays doubling capacity, breakers and termination
- High efficiency modular rectifiers reduce operating costs
- Flexible low voltage load disconnect, circuit breaker, TPS and TPL fuse options

The CXPS-HX System provides high capacity DC power for large communication network applications.

This system combines the capabilities of tiered distribution, advanced microprocessor based supervision, and modular rectifiers in a single integrated bay. Two bays can easily be linked together and share a central controller to double the system capacity.

The Cordex® Distributed Power System is cost effective due to the internal copper buswork, and is delivered ready to assemble with factory tested components. No overhead bus work is required. An optional external return bus is available. Cable access is from the top and load connections are terminated from the side or rear of the bay. Hot swappable Cordex® power modules and internal busswork provides a safe work environment with easy installation and maintenance.

CXPS-HX 48-2500 48V High Capacity Distributed Power System

P/N: Refer online to ordering guide for P/N and configurations

Electrical	
Rectifier Shelf AC Input:	<ul style="list-style-type: none"> • Single Phase, 208 to 277VAC • Dual 3 Phase, 208VAC (w/o neutral) • Dual 3 Phase, 480VAC (with neutral) • Dual 3 Phase, 480VAC (w/o neutral)
Max. Output Power:	120kW One bay system 240kW Two bay system
Max. Bus Capacity:	2500A One bay system 5000A Two bay system
Distribution and Termination	
System distribution section consists of up to 3 distribution tiers.	
Fuses	
TPL Fuses:	<ul style="list-style-type: none"> • 61-800A • 4 fuse holders per panel • Max 3 fuse panels per bay
TPS/TLS Fuses:	<ul style="list-style-type: none"> • Up to 125A • 18 fuse holders per panel • Max 6 fuse panels per bay
Breakers	
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 • Max 3 fuse panels per bay
Plug-in Bullet Breakers:	<ul style="list-style-type: none"> • 1 pole up to 125A • 2 pole 126 to 200A • 3 pole 201 to 300A • 18 breaker poles per panel • Max 6 panels per bay
Output Termination	
TPL Fuse:	2 hole, 3/8" dia. on 1" center & 1/2" dia. on 1 1/4" center
TLS/TPS/AM Breaker:	1 pole, 2 hole, 1/4" dia. on 3/8" center 2 and 3 pole, 2 hole, 3/8" dia. on 1" center
Internal Ground Bar (optional):	2 hole, 1/4" dia. on 3/8" center, 3/8" dia. on 1" center & 1/2" dia. on 1 1/4" center
Battery:	2 hole, 6 sets 3/8" dia. on 1" center & 1/2" dia. on 1 1/4" center
Mechanical	
Mounting:	Standard 23" relay rack (flush rack mount) in box bay
Dimensions:	cm: 213H x 71W x 71D inches: 84H x 28W x 28D

Environmental	
Temperature:	0 to 40°C (32 to 104°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)
Related Components	
Cordex HP 48-4kW Rectifier:	See datasheet #0480003-00 for more detailed information.
Cordex HP 48-12kW Rectifier:	See 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:	6 shunts per module (3 or 5 modules per bay)
Remote Hot Bar	
Mounting:	2" Auxiliary framing (customer supplied)
Termination:	124 sets of 2 hole 1/2" dia. on 1 1/4" centers or 3/8" dia. on 1" centers
Unit Capacity:	5,000A per bar
Ultimate Capacity:	2 bar limit (10,000A)
Remote Return Bar	
Mounting:	2" Auxiliary framing (customer supplied)
Termination:	124 sets of 2 hole 1/2" dia. on 1 1/4" centers or 3/8" dia. on 1" centers
Unit Capacity:	2,500A per bar
Ultimate Capacity:	4 bar limit (10,000A)
Agency Compliance	
Safety:	<ul style="list-style-type: none"> • CAN/CSA C22.2 No. 60950-1-07+ • ANSI/UL 60950-1:2011
NEBS:	Level 3 certification



Alpha Technologies Services, Inc. USA: 3767 Alpha Way, Bellingham, WA 98226 Canada: 7700 Riverfront Gate, Burnaby, BC V5J 5M4
Toll Free North America: +1 800 322 5742 Outside US: +1 360 647 2360 Technical Support: +1 800 863 3364
For more information visit www.alpha.com

© 2020 Alpha Technologies Services, Inc. All Rights Reserved. Trademarks and logos are the property of Alpha Technologies Services, Inc. and its affiliates unless otherwise noted. Subject to revisions without prior notice. E. & O.E.

an EnerSys® company

07/2020
#0470108-00 REV E