CXPS-HX 48-2500

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 provides a safe work work environment, with easy installation and maintenance.

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

ELECTRICAL

Rectifier shelf AC input:...Single Phase, 208 to 277Vac
Dual 3 Phase, 208 to 240Vac (w/o neutral)
Dual 3 Phase, 360 to 480Vac (with neutral)
Max. output power: ....120kW One bay system
240kW Two bay system
Max. bus capacity: ....3000A One bay system
6000A Two bay system

DISTRIBUTION AND TERMINATION

System distribution section consists of up to 3 distribution tiers.

Fuses:
TPL fuses: 61-800A
4 fuse holders per panel
Max 3 fuse panels per bay
TPS/TLS fuses: ....Up to 125A
18 fuse holders per panel
Max 6 fuse panels per bay

Breakers:
Bolt-in breakers:..............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: ...1 pole up to 125A
2 pole 126 to 200A
3 pole 201 to 250A
18 breaker poles per panel
Max 6 panels per bay

Output termination:
TPL fuse: ....2 hole, ⅜" dia. on 1" center
& ½" dia. on 1¾" center
TLS/TPS/AM breaker: .....1 pole, 2 hole, ¼" dia. on ⅝" center
2 and 3 pole, 2 hole, ⅜" dia. on 1" center

Internal ground bar:.........2 hole, ¼" dia. on ⅝" center, ⅜" dia. on 1" center & ½" dia. on 1¾" center

Battery:............................2 hole, 6 sets ⅜" dia. on 1" center & ½" dia. on 1¾" 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.

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: ....LCD with touch screen
System OK (green LED)
System minor alarm (yellow LED)
System major alarm (red LED)

Load disconnect:.............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 ½" dia. on 1¾" centers or ⅜" 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 ½" dia. on 1¾" centers or ⅜" dia. on 1" centers
Unit Capacity: ....2,500A per bar
Ultimate Capacity:...........4 bar limit (10,000A)

AGENCY COMPLIANCE

Safety:...............................CAN/CSA C22.2 No. 60950-1-07+ AMD 1:2011
ANSI/UL 60950-1:2011
NEBS:...............................Level 3 certification (Pending)