



an EnerSys company

CXPS-W

600A – 2000A Power System



- -48V power solution for Cell Site, CO, MSC, Data Center and Cable Headend facilities
- Each system combines rectifiers, battery termination and distribution, simplifying installation
- Dual voltage options use high efficiency DC to DC converters for legacy cell site applications
- High efficiency modular rectifiers reduce operating costs
- Compact front access design reduces floor space footprint
- Flexible low voltage load or battery disconnect, circuit breaker, TPS and TPL fuse options

The CXPS-W series is a compact, multi capacity -48V DC power system designed for space constrained communications applications.

The systems can be factory equipped with DC to DC converters and a secondary distribution bus to distribute power at +24Vdc to secondary loads. The distribution options are extremely flexible; providing TPL fuse distribution, high capacity breaker distribution, TLS fuse distribution, and plug in breakers. Shunts are available for both tier and branch current monitoring. The system may also be configured with either low voltage load disconnect (LVLD) or low voltage battery disconnect (LVBD) functionality.

The system utilizes standard Cordex Power System (CXPS) components and is a perfect solution for space constrained applications due to the compact, front access design.

Systems are equipped with the CXC-HP system controller for single point control, advanced battery diagnostics, data logging plus local and remote monitoring, including SNMP alarming.

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Consult your Alpha representative for P/N configurations

Electrical	
Primary Output Voltage:	-48V
Secondary Output Voltage (optional):	+24V
4.0kW Rectifier Shelf AC Input:	<ul style="list-style-type: none"> • 6x 30A, Single Phase, 208 to 277Vac • 2x 50A, 3 Phase, 208Vac (w/o neutral) • 2x 30A, 3 Phase, 277/480Vac (w/neutral)
2.4kW Rectifier Shelf AC Input:	2x40A, 1x20A, Single Phase, 208 to 277Vac
Distribution	
System Ampacity Ratings (Continuous)	
1 Tier System Bus Capacity:	600A
2 Tier System Bus Capacity:	1200A
3 Tier System Bus Capacity:	1200A (or) 1800A
4 Tier System Bus Capacity:	1200A (or) 2000A
Fuses	
GMT:	30A, 10 positions (15A max. fuse)
TPL (HC*):	Up to 10 positions in a 4T Distribution, (800A max. fuse)
TPL (LC*):	Up to 16 positions in a 4T Distribution, (400A max. fuse)
TLS/TPS:	Up to 96 positions
Breakers	
High Capacity Plug-In Bullet:	Up to 96 positions in a 4T Distribution
High Capacity Bolt-In:	Up to 24 positions in a 4T Distribution
Output Termination	
GMT Fuse:	0.34 to 2.5mm ² (14 to 22AWG)
TPL (HC*) fuse:	2x 3/8" studs on 1" centers (Up to 2x 750 MCM Cables)
TPL (LC*) fuse:	1x 3/8" studs on 1" centers (Up to 1x 750 MCM Cables)
HC Bolt-In breakers:	1x 3/8" studs on 1" centers (Up to 1x 750 MCM Cables)
TLS/TPS/Plug-In breaker:	1 pole are 1/4" studs on 3/8" centers, 2 pole and 3 pole are 3/8" dia. on 1" centers
Battery:	5x 3/8" hole on 1" centers per polarity
Internal Ground bar:	1/4" studs on 3/8" centers
Optional External Ground bar available	

System Level Alarms & Controls	
Alarms/control parameters are user-programmable through built-in digital supervisory unit. See Cordex HP 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)
Alarm Connections:	>0.34 to 2.5mm ² (14 to 22AWG)
Mechanical	
Mounting:	Standard center mount 23" relay rack
Dimensions:	mm: 2133H x 660W x 560D inches: 84H x 26W x 22D
Weight:	System: 227kg (500lbs) approx 4.0kW Rectifier: 8.5kg (19lbs) per module 2.4kW Rectifier: 1.76kg (3.9lbs) per module
Environmental	
Temperature:	0 to 40°C (32 to 104°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)
Agency Compliance	
Safety:	CSA C22.2 No. 60950-1 UL 60950-1
NEBS:	NEBS L3

