



an EnerSys® company

# Cordex® CXPS-W Power System

## 2000A Front Access DC Solution



- -48V power solution for cell site, central office, mobile switch center, data center and cable headend facilities
- Each system combines rectifiers, battery termination and distribution, simplifying installation
- True front access DC power system for AC input, DC output and battery termination
- 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 Cordex® CXPS-W power system is a compact, multi capacity -48V DC power system designed for space constrained communications applications.**

The system can be factory equipped with a front access AC termination panel making it a true front access DC power system. 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.

# Cordex® CXPS-W Power System

## 2000A Front Access DC Solution

The Cordex® CXPS-W series is a compact, true front access, multi capacity -48VDC power system designed for space constrained communication applications. The front access W-Plant optimizes floor space, streamlines installation, and simplifies maintenance, empowering organizations to achieve seamless connectivity and operational excellence.

- **Optimizes floor space:** The true front access system allows for installation directly against a wall, increasing useable floor space
- **Streamlines installation:** Front access AC input terminal blocks that are factory wired to the rear of the rectifier shelves, reducing installation time
- **Simplifies maintenance:** Site visits and general maintenance made simpler via ease of access to AC, DC, and battery connections

AC Conduit Access (Top Entry)

- (3) x 1" per side or
- (2) x 1.5" per side

Removable Plate for Cable Routing

Cable Runway to Terminal Blocks

2RU AC Termination Panel

AC Terminal Blocks  
(factory wired to rectifier shelves)

# Cordex® CXPS-W Power System 2000A Front Access DC Solution

Consult your Alpha representative for P/N configurations

Electrical	
<b>Primary Output Voltage</b>	-48V
<b>4.6kW Rectifier Shelf AC Input</b>	<ul style="list-style-type: none"> <li>• 6x 30A, Single Phase, 208 to 277VAC</li> <li>• 2x 50A, 3 Phase, 208VAC (w/o neutral)</li> <li>• 2x 30A, 3 Phase, 277/480VAC (w/neutral)</li> </ul>
<b>3.0kW Rectifier Shelf AC Input</b>	2x40A, 1x20A, Single Phase, 208 to 277VAC
Distribution	
System Ampacity Ratings (Continuous)	
<b>1 Tier System Bus Capacity</b>	600A
<b>2 Tier System Bus Capacity</b>	1200A
<b>3 Tier System Bus Capacity</b>	1200A (or) 1800A
<b>4 Tier System Bus Capacity</b>	1200A (or) 2000A
Fuses	
<b>GMT</b>	30A, 10 positions (15A max. fuse)
<b>TPL (HC*)</b>	Up to 10 positions in a 4T Distribution, (800A max. fuse)
<b>TPL (LC*)</b>	Up to 16 positions in a 4T Distribution, (400A max. fuse)
<b>TLS/TPS</b>	Up to 96 positions
Breakers	
<b>High Capacity Plug-In Bullet</b>	Up to 96 positions in a 4T Distribution
<b>High Capacity Bolt-In</b>	Up to 24 positions in a 4T Distribution
Output Termination	
<b>GMT Fuse</b>	0.34 to 2.5mm <sup>2</sup> (14 to 22AWG)
<b>TPL (HC*) Fuse</b>	2x 3/8" studs on 1" centers (Up to 2x 750 MCM Cables)
<b>TPL (LC*) Fuse</b>	1x 3/8" studs on 1" centers (Up to 1x 750 MCM Cables)
<b>HC Bolt-In breakers</b>	1x 3/8" studs on 1" centers (Up to 1x 750 MCM Cables)
<b>TLS/TPS/Plug-In breaker</b>	1 pole are 1/4" studs on 3/8" centers, 2 pole and 3 pole are 3/8" dia. on 1" centers
<b>Battery</b>	5x 3/8" hole on 1" centers per polarity
<b>Internal Ground bar</b>	1/4" studs on 3/8" centers
<b>Optional External Ground bar available</b>	

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.	
<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>Alarm Connections</b>	>0.34 to 2.5mm <sup>2</sup> (14 to 22AWG)
Mechanical	
<b>Mounting</b>	Standard center mount 23" relay rack
<b>Dimensions</b>	<b>mm:</b> 2133H x 660W x 560D <b>inches:</b> 84H x 26W x 22D
<b>Weight</b>	<b>System:</b> 227kg (500lbs) approx <b>4.6kW Rectifier:</b> 8.5kg (19lbs) per module <b>3.0kW Rectifier:</b> 1.76kg (3.9lbs) per module
Environmental	
<b>Temperature</b>	0 to 40°C (32 to 104°F)
<b>Humidity</b>	0 to 95% RH non-condensing
<b>Elevation</b>	-500 to 2800m (-1640 to 9186ft)
Agency Compliance	
<b>Safety</b>	CSA C22.2 No. 62368-1 UL 60950-1
<b>NEBS</b>	NEBS L3



**World Headquarters**  
 2366 Bernville Road  
 Reading, PA 19605 USA  
 +1 610-208-1991 / +1 800-538-3627

**EnerSys EMEA**  
 EH Europe GmbH  
 Baarerstrasse 18  
 6300 Zug Switzerland

**EnerSys Asia**  
 No. 85, Tuas Avenue 1  
 Singapore, 639518  
 +65 6558 7333