an EnerSys® company

Cordex® CXPS-W-FA/CXPS-W Power System

2,000 A Power System

- –48 V power system for cell-site, central-office, mobile switching center, data-center, and cable-headend facilities
- Each power system combines rectifier modules, 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 rectifier modules reduce operating costs
- Compact front-access design reduces floor-space footprint
- Flexible low-voltage load or battery disconnect, circuit breakers, TPS and TPL fuse options

Cordex® CXPS-W-FA/CXPS-W power systems are compact, multi-capacity –48 VDC power systems 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. Distribution options are extremely flexible, including 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.

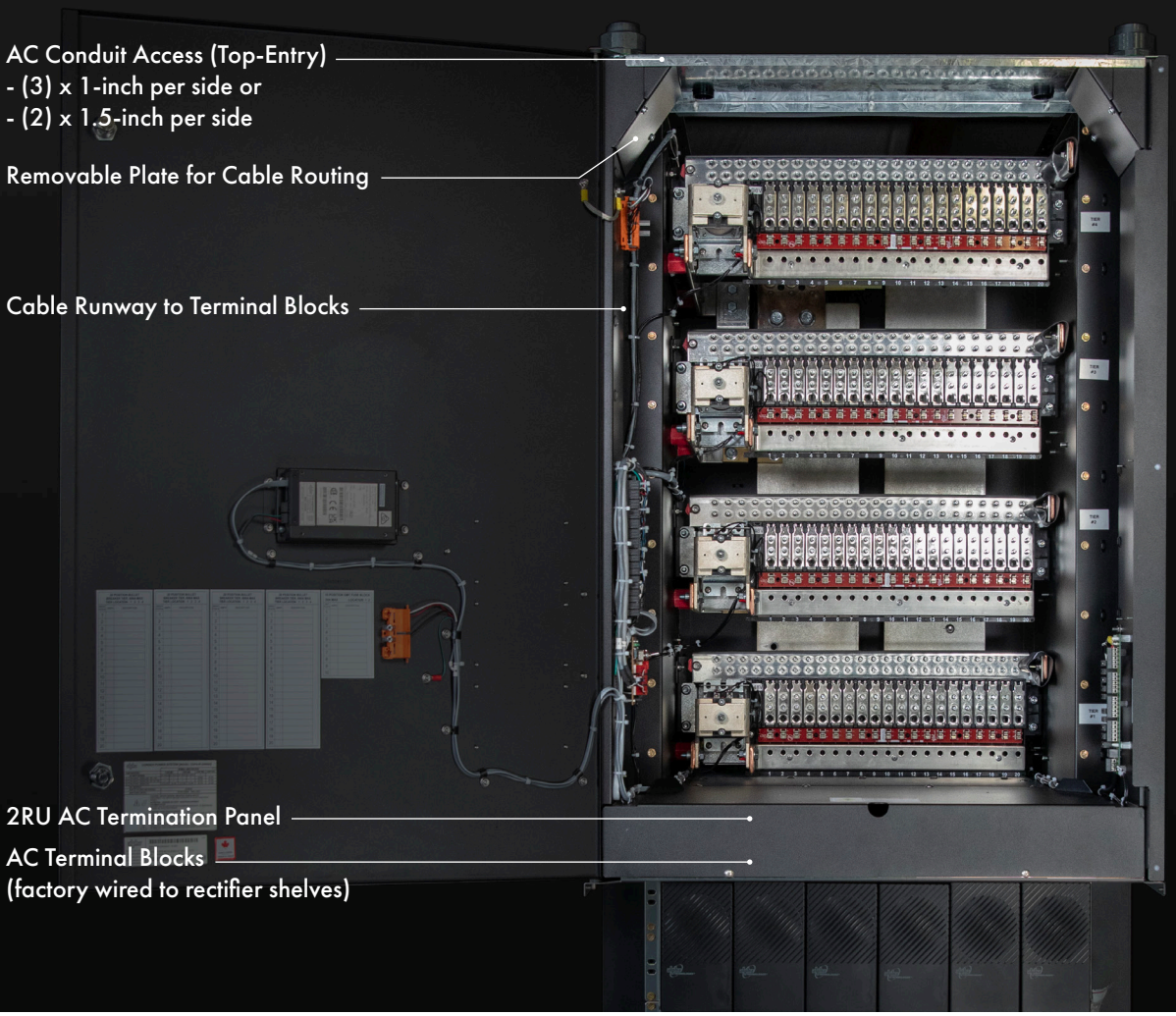
Systems are equipped with the EnVision™ Elite or Cordex® HP controller for single-point control, advanced battery diagnostics, data logging, and both local and remote monitoring, including SNMP alarming.

Cordex® CXPS-W-FA Power System

2,000 A Front-Access DC Solution

The Cordex® CXPS-W-FA is a compact, true front-access, multi-capacity –48 VDC 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 usable 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.



Cordex® CXPS-W-FA/CXPS-W Power System 2,000 A Front-Access DC Solution

Consult your Alpha representative for part number configurations.

Electrical	
Primary Output Voltage	−48 V
Cordex® HP 4.0/4.6 kW Rectifier Shelf AC Input	6 × 30 A, 1-Phase, 208 to 277 VAC
	2 × 50 A, 3-Phase, 208 VAC (without neutral)
	2 × 30 A, 3-Phase, 480/277 VAC (with neutral)
Cordex® HP 2.4/3.0 kW Rectifier Shelf AC Input	2 × 40 A and 1 × 20 A, 1-Phase, 208 to 277 VAC
Distribution	
System Ampacity Ratings (Continuous)	
1-Tier System Bus Capacity	600 A
2-Tier System Bus Capacity	1,200 A
3-Tier System Bus Capacity	1,200 A (standard system) or 1,800 A (front-access or standard system)
4-Tier System Bus Capacity	1,200 A (standard system) or 2,000 A (front-access or standard system)
Fuses	
GMT Fuse	30 A, 10 positions (15 A maximum fuse)
High-Capacity TPL Fuse	Up to 8 positions in a 4-tier distribution (800 A maximum fuse)
Low-Capacity TPL Fuse	Up to 16 positions in a 4-tier distribution (400 A maximum fuse)
TLS/TPS Plug-in Bullet Fuse	Up to 96 positions
Circuit Breakers	
High-Capacity Plug-in Bullet Circuit Breaker	Up to 96 positions in a 4-tier distribution system
High-Capacity Bolt-in Circuit Breaker	Up to 24 positions in a 4-tier distribution system
Output Termination	
GMT Fuse	14 to 22 AWG (0.34 to 2.5 mm^2)
High-Capacity TPL Fuse	2 × 0.375-inch studs on 1.00-inch centers; up to 2 × 750 MCM (400 mm^2) cables
Low-Capacity TPL Fuse	1 × 0.375-inch stud on 1.00-inch center; 1 × 750 MCM (400 mm^2) cable
High-Capacity Bolt-in Circuit Breaker	1 × 0.375-inch stud on 1.00-inch center; 1 × 750 MCM (400 mm^2) cable
TLS/TPS Plug-in Circuit Breaker	**1-pole:** 0.25-inch studs on 0.625-inch centers
	2-pole and 3-pole: 0.375-inch studs on 1.00-inch centers
Internal Ground bar	0.25-inch holes on 0.625-inch centers
External Ground Bar	Optional
Battery	5 × 0.375-inch holes on 1.00-inch centers per polarity

System Level Alarms and Controls	
Alarm and control parameters are user-programmable through the built-in controller. See the controller data sheet and documentation for detailed information on alarms and controls.	
Controller	EnVision™ Elite Touch 2RU touchscreen controller
	Cordex® CXC HP 2RU touchscreen system controller
LEDs	Status and alarms
Alarm Connections	14 to 22 AWG (0.34 to 2.5 mm^2)
Mechanical	
Mounting	Standard center mount 23-inch relay rack
Dimensions H × W × D	**Front-access system:** 84 × 28 × 24 in. (2,133 × 711 × 610 mm)
	Standard system: 84 × 28 × 22 in. (2,133 × 711 × 560 mm)
Net Weight	650 lb (295 kg) approximately
Environmental	
Operating Temperature	32 to 104°F (0 to 40°C)
Relative Humidity	0 to 95% non-condensing
Elevation	Up to 9,842 ft (3,000 m)
Regulatory Compliance	
Safety	CAN/CSA C22.2 No. 62368-1 3rd Edition
	UL 62368-1 3rd Edition
Network Equipment-Building Systems (NEBS)	NEBS Level 3 Certified

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 APAC
No. 85, Tuas Avenue 1
Singapore, 639518
+65 6558 7333

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