



an EnerSys® company

CXPS-E3

400A Power System



- Integrated -48V, 400A power system with front access distribution
- Up to 26 distribution positions in both 5RU, 2.4/3.0kW rectifier option or 7RU, 4kW rectifier option
- Advanced CXC HP controller with touch screen display for full control
- Temperature rated design for harsh outdoor applications from -40 to 65°C
- Wide range AC input for flexible worldwide deployment using a single rectifier
- Industry leading power system density

The CXPS-E3 power system uses high-density rectifiers, a front access distribution center and the advanced CXC HP controller. The CXPS-E3 power system is the ideal solution for small to medium-sized 48VDC applications, providing up to 400 Amps of output current.

With 19" or 23" mounting, high temperature operation and high-power density, it is the perfect solution for a wide variety of installation scenarios including those in harsh, outdoor environments. The distribution center provides up to 26 load breaker positions, integrated shunt and options for LVD. All distribution connections and controller I/O contacts are front accessible. The 2.4/3.0kW and 4kW rectifier options provides the CXPS-E3 power system with the unique capability of having a single module serve a host of AC services (1 Ph, 3 Ph, 208VAC, 240VAC, 277VAC).

The CXC HP controller includes a touch screen GUI for simple and convenient local setup. A built-in web server provides alternate setup via local or remote IP access, using a standard internet browser. System parameters are customizable and provided both locally and remotely.

The CXPS-E3 power system can be easily integrated into customer-provided relay racks or enclosures. It also can be ordered factory installed into various Alpha relay rack configurations and outdoor enclosures. This includes systems with pre-wired battery trays.

CXPS-E3 400A Power System

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

Electrical			
Model	48V-2.4/3.0kW Rectifier System	48-4.0kW Rectifier System	
System Capacity (Max):	400A	400A	
Input:	Operating Voltage:	187 to 277VAC (Nominal)	208 to 277VAC (Nominal)
	Extended (High):	277 to 310VAC	277 to 320VAC
	Extended (Low):	90 to 187VAC (de-rated O/P power)	90 to 187VAC (de-rated O/P power)
	System AC Requirements:	19" System: Up to 8 x 20A feeds 23" System: Up to 4 x 40A feeds & 2 x 20A feeds	19" System: Up to 5 x 30A feeds 23" System: Up to 6 x 30A feeds
	Efficiency:	>96% Peak efficiency	>95% Peak efficiency
Output:	Current Per Module:	2.4kW: 50A @ 48VDC (nominal), 25A Max @ 48VDC (120VAC) 3.0kW: 62.5A @ 48VDC (nominal), 32A Max @ 48VDC (120VAC)	83A @ 48VDC (Nominal I/P)
	Rectifier Positions:	19" System: Up to 8 rectifiers 23" System: Up to 10 rectifiers	19" System: Up to 5 rectifiers 23" System: Up to 6 rectifiers
Mechanical			
19" System:	Mounting:	Flush/Center	
	Dimensions:	mm: 222H x 482W x 432D (5RU) inches: 8.75H x 19W x 17D (5RU)	mm: 355H x 482W x 432D (7RU) inches: 14H x 19W x 17D (7RU)
	Hot Positions:	21x Load Breakers (or) 16 Load + 5 Battery Breakers 21x sets of 1/4" Studs on 3/8" Centers	
	Return Positions:	21x sets of 1/4" Studs on 3/8" Centers	
	Weight (System):	20.4kg (45lbs)	
23" System:	Mounting:	Flush/Center	
	Dimensions:	mm: 222H x 584W x 432D (5RU) inches: 8.75H x 23W x 17D (5RU)	mm: 355H x 584W x 432D (7RU) inches: 14H x 23W x 17D (7RU)
	Hot Positions:	26x Load Breakers (or) 21 Load + 5 Battery Breakers 26x sets of 1/4" Studs on 3/8" Centers	
	Return Positions:	26x sets of 1/4" Studs on 3/8" Centers	
	Weight (System):	25.8kg (57lbs)	
Weight (Rectifier):	Module: 1.76kg (3.9lbs)	Module: 3.9kg (8.6lbs)	
System Access:	Front access after initial installation		
Controller:	CXC HP		
Environmental			
Temperature:	-40 to 55 °C (-40 to 131 °F) 55 to 65 °C (-40 to 149 °F) de-rated output		
Humidity:	0 to 95% RH non-condensing		
Elevation:	-500 to 2000m (-1640 to 6600ft) -500 to 4000m (-1640 to 13100ft) with de-rated output		
Agency Compliance			
Safety:	CSA C22.2 No. 60950-1		



48V-2.4/3.0kW Rectifier System



48-4.0kW Rectifier System



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