



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, 2.4kW 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

Alpha's E3 uses high-density rectifiers, a front access distribution center and the advanced CXC-HP controller. The E3 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 2.4kW and 4kW rectifier options provides the E3 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 E3 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

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

Electrical		
Model	48V-2.4kW Rectifier System	48-4.0kW Rectifier System
System Capacity (Max):		400A
Input	Operating Voltage:	187 to 277Vac (Nominal)
	Extended (High):	277 to 310Vac
	Extended (Low):	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
	Efficiency:	>96% Peak efficiency
Output	Current Per Module:	50A @ 48Vdc (nominal I/P) 25A max @ 48Vdc (120Vac)
	Rectifier Positions:	19" System: Up to 8 rectifiers 23" System: Up to 10 rectifiers
Mechanical		
19" System	Mounting:	Flush/Center
	Dimensions:	inches: 8.75H x 19W x 17D (5RU) 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:	inches: 8.75H x 23W x 17D (5RU) 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	

