

CXPS-E3

400A Power System



Your Power Solutions Partner

- Integrated -48V, 400A power system with front access distribution
- Industry leading power system density
- 400A, up to 26 distribution positions in 5RU
- Advanced CXC-HP controller with touch screen display for full local control
- High temperature rated design for harsh outdoor applications
- Wide range AC input for flexible worldwide deployment



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 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. The E3 can be easily integrated into customer-provided relay racks or enclosures, or can be ordered factory installed into various Alpha relay rack configurations, including systems with pre-wired battery trays.

Power



CXPS-E3 400A Power System

Consult your Alpha representative for P/N configurations

ELECTRICAL		
Model		48V-2.4kW 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	8.75"H x 19"W x 17"D	
	Hot Positions	21x Load Breakers (or) 16 Load + 5 Battery Breakers	
		21x sets of 1/4" Studs on 5/8" Centers	
	Return Positions	21x sets of 1/4" Studs on 5/8" Centers	
Weight (System)	20.4kg (45lbs)		
23" System	Mounting	Flush/Center	
	Dimensions	8.75"H x 23"W x 17"D	
	Hot Positions	26x Load Breakers (or) 21 Load + 5 Battery Breakers	
		26x sets of 1/4" Studs on 5/8" Centers	
	Return Positions	26x sets of 1/4" Studs on 5/8" Centers	
Weight (System)	25.8kg (57lbs)		
Weight (Rectifier)		1.76kg (3.9lbs) / Module	
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

CERTIFICATIONS	
Safety	CSA C22.2 No. 60950-1
UL 60950-1	


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