

E-CXPS-48-5

100A POWER SYSTEM

OVERVIEW

2U power system with Cordex™ CXCM1 HP system controller and modular Cordex™ HP 1.2kW rectifier solution provides up to 100A capacity @ -48VDC for various small power applications

High efficiency design for reduced operating expenses

High temperature rated, fan-cooled design for harsh outdoor installations

Wide range AC input and IEC line cords for multiple AC services

Front accessible

PRODUCT NUMBER

Power system without rectifiers	2000005679
1.2kW rectifier	010-619-20-041
Blank for empty rectifier position	747-622-20-000

OPTIONS

Battery temperature sensor 1.8m/ 3/8"	747-082-20-071
Battery temperature sensor 1.8m/ 1/4"	747-028-20-071
Battery temperature sensor 3.6m/ 3/8"	747-082-20-072
Battery temperature sensor 3.6m/ 1/4"	747-028-20-072
I/O board internal assembly	747-082-20-071
Customized configuration of system	Contact EnerSys



	ELECTRICAL		Per module in system	Per full system 4 rectifier
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Input	Voltage	Nominal range		176 to 276VAC		
		Operating range		90 to 300VAC		
		Extended low voltage range		90 to 175VAC (de-rated output power)		
		Extended high voltage range		277 to 300VAC (de-rated power factor)		
	Frequency		45 to 70Hz			
	Power factor		>0.99			
Efficiency		>94%				
Output	Voltage	Nominal		-48VDC		
		Operating range		-42 to -58VDC		
	Power	Nominal range		1 200W	4 800W	
		Extended low voltage range (Linear derating)	132 to 176VAC	720W	2 880W	
			110 to 132VAC	600W	2 400W	
			90 to 132VAC	475W	1 900W	
<90VAC		0W				
Current	Nominal		25A @ 48VDC	100A		

CONNECTIONS					
Input	AC	L1-L2, N, PE (IEC C20)		2 pc IEC C19 female type (L1 resp L2) 3x1.5mm ²	
Output	Load	+/- (positive ground)		10 pc, max 4mm ²	1-pol/ CB 3x6A 7x10A
	Battery	+/-		2 pcs, max 10mm ²	1-pol/ CB 50A
One battery temperature sensor 1.8m/ 3/8" (1000032455) included.					
RJ45	Ethernet port (TCP/IP and SNMP secured by user)				
USB	Backup, restore or upgrade configuration in controller				
I/O	AI: 1x temperature (+/- 5VDC), DI: 1x Voltage (+60VDC), DO: 3x Alarm Dry contact (60VDC/1A)				

	PERFORMANCE				
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Indicators	AC mains OK — green LED DC output OK — green LED Module alarm — red LED				
Adjustments (Controller)	Float and equalize voltage High and low voltage alarms Current limit Slope %			Battery test voltage High voltage shutdown Start delay timers	
Protection	Current limit/short circuit Input/output fuses Output power limiting Input transient AC high voltage shutdown Start delay			Output high voltage shutdown Thermal foldback/shutdown AC low line foldback/shutdown Battery low voltage disconnect Battery breakers common alarm Load breakers common alarm	
Optional	Additional Battery temperature sensor Additional I/O board for input/output				

	MECHANICAL				
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Dimensions (H x W x D)	89 x 448 x 347mm (19", 2U)				
Weight	12.8kg (max populated subrack)/ 1.23kg (rectifier module)				
Mounting	19" with sliding rails and flush mounting				

	ENVIRONMENTAL				
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Temperature	Operation	-40 to +80°C (+65 to +80°C de-rated output power)			
	Storage	-40 to +85°C			
Humidity	0 to 95% RH non-condensing				
Elevation	-500 to 3000m				
Cooling	Fan cooled (front to rear)				

	STANDARDS AND CERTIFICATION				
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Safety	EN/IEC 62368-1. CE marked				
EMC	ETSI 300 386				
	Emissions: EN55022 (CISPR 22) Class B, EN 61000-3-2, 3-3 Immunity: EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11, ANSI/IEEE C62.41 Cat B3				



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

EnerSys EMEA
EH Europe GmbH
Baarerstrasse 18
6300 Zug
Switzerland

EnerSys Asia
152 Beach Road,
Gateway East Building #11-08,
Singapore 189721
Tel: +65 6416 4800

