an EnerSys company

Cordex HP™ 1.2kW

Front Access Rectifier Shelf System

- High performance power system 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 and voltages
- Front-access options for space restricted enclosures

Designed specifically for restricted space installations, this 48Vdc power and distribution system incorporates reliable -48V, 1.2kW Cordex rectifier modules and a complete front access design, allowing for all connections in front of the rack channel.

The system is a perfect solution for small 48Vdc power applications such as customer premise, xDSL, FTTx, distributed node B and microwave. High efficiency and high temperature operation makes the system ideal for harsh outside plant enclosure installations.

Cordex High-Performance rectifiers make a proven, reliable platform even better, with significant advancements in efficiency and performance. Featuring a compact, fan-cooled design, HP rectifiers open the possibility to wider ranges of applications and immediate OPEX/CAPEX savings, reducing total cost of ownership and impact on the environment.

The 19/23" universal rack mount power system accommodates up to four Cordex HP 48V, 1.2kW rectifiers, a modular Cordex CXCM1 HP controller, with breaker and GMT Fuse distribution in a compact 2RU package.

Cordex HP™ 1.2kW 48V Front Access Power System

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P/N: 0300165-XXX

Electrical		
Voltage:		176 to 312Vac (nominal) 90 to 176Vac (de-rated O/P power)
Current:		7.5A max (176 to 300Vac) per module 6.0A max (90 to 176Vac) per module
Efficiency:		>93% at 240Vac input and 50-100% load
Power Output (Per Module):		1200W (176 to 300Vac input) 600W (110 to 130Vac Input) *Power de-rated linearly from 1200-600W (176 to 130Vac input) *Power de-rated linearly from 600-500W (110 to 90Vac input)
Current Output (Per Module):		25A @ 48Vdc (176 to 300Vac input) 12.5A @ 48Vdc (110 to 130Vac Input)
Performance / Features		
Rectifiers:		Cordex HP 48-1.2kW
Distribution:	**Module:**	• (10) GMT fuse positions • (4) AM plug-in breakers • Battery low voltage disconnect • Battery shunt
	Supervisory:	CXCM1-HP controller
Mechanical		
Shelf Dimensions:		**mm:** 88H x 440W x 305D **inches:** 3.5H x 17.3W x 12.0D
*Note: Rectifier front handle adds additional 12.5mm/0.49" Depth)		
Mounting:		19" or 23" rack, 6" offset (center), EIA rack spacing
Weight:		**Shelf:** 4.55kg (10lbs) **Rectifier:** 1.23kg (2.7lbs)

Environmental	
Temperature:	**Standard:** -40 to 65°C (-40 to 149°F) **Extended:** -40 to 75°C (-40 to 167°F) de-rated output
Storage:	-40 to 80°C (-40 to 176°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)
Cooling:	Fan cooled (front to rear)
Heat Dissipation:	1232 BTU hour/system max.
Standards	
Safety:	CSA C22.2 No 60950-1-03
CE:	EN60950
NEBS:	• GR-1089-CORE • GR-63-CORE
Related Components	
010-619-20-040:	Cordex HP™ 1.2kW 48Vdc rectifier
0180054-001:	Cordex™ controller CXCM1 HP
877-690-19:	5-15P (120V) Line cord, 2.5m
877-790-19:	120/240Vac Universal line cord, flying leads, 3.5m
747-622-20-000:	Blank plate
747-082-20-071:	6ft 3/8" Lug temp sensor
747-028-20-071:	6ft 1/4" Lug temp sensor

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