



an EnerSys company

Cordex HP™ 1.2kW

1RU Integrated Shelf System with GMT Distribution



- Single shelf modular rectifier solution provides up to 75A 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 fuse distribution for space restricted enclosures

Cordex™ High-Performance (HP) 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 OP-EX/CAP-EX savings, reducing total cost of ownership and impact on the environment.

Designed specifically for restricted space installations, this 48Vdc power and distribution system incorporates the reliable 48V, 1.2kW Cordex rectifier modules and front accessible fuse distribution connections. The system is a perfect solution for small 48Vdc power applications such as customer premise, xDSL, FTTx, distributed node B and microwave. High efficiency, high temperature operation, and a small 1RU footprint make the system ideal for harsh outside plant installations.

The 19/23" universal rack mount power system accommodates up to three Cordex HP 48V-1.2kW rectifiers and a modular Cordex CXCM 1 HP controller, with GMT Fuse distribution, in a compact 1RU package.

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P/N: 030-851-20-XXX

Electrical	
Input Voltage	Operating: 90 to 300Vac [See output power for power derating]
Input Current (per module):	<ul style="list-style-type: none"> 7.5A Maximum (176 to 300Vac) 6.0A Maximum (90 to 176Vac)
Efficiency:	>93% at 240Vac Input and 40-100% load
Power Output (per module):	<ul style="list-style-type: none"> 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):	<ul style="list-style-type: none"> 25A @ 48Vdc (176 to 300Vac input) 12.5A @ 48Vdc (110 to 130Vac Input)
Mechanical	
Dimensions:	mm: 44H x 439.5W x 335D inches: 1.75H x 17.3W x 13.2D
*Note: Excludes Rectifier Front Handle and Optional Kydex Cover	
Mounting:	19" or 23" rack, 6" offset (center), EIA rack spacing
Weight:	Shelf: 3kg (6.6lbs) Rectifier: 1.23kg (2.72lbs)
Connections	
GMT Fuse (Load):	(7) Positions (8A): Terminal block (#16 to #30 AWG) (1) Position (10A): Terminal block (#14 to #26 AWG)
Battery:	¼" on ⅝" center 2-hole lugs
AC Input:	Dual IEC-60320-C20 MAIC connectors (for use with IEC-60320-C19 female line cords)
Alarms:	Terminal block (#16 to #26 AWG)
*Note: Shelf P/Ns do not include rectifier module or distribution breakers.	

Environmental	
Temperature:	Standard: -40 to 65°C (-40 to 149°F) Extended: -40 to 80°C (-40 to 176°F) (de-rated output power)
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:	924 BTU hour/system max.
Related Components	
010-619-20-041:	Cordex HP™ 1.2kW 48Vdc rectifier
0180054-001:	CXCM1 HP Cordex Controller
877-690-19:	5-15P (120V) line cord, 2.5m
877-740-19:	Universal line cord, flying leads, 3.5m
747-622-20-000:	Blank plate
5610638-001:	Kydex rear cover
036-201-20-000:	CXCM1 I/O terminal block kit
Agency Compliance	
Safety:	<ul style="list-style-type: none"> CSA C22.2 No 60950-1-03 CE marked
NEBS:	<ul style="list-style-type: none"> GR-1089-CORE GR-63-CORE
*Consult factory for certification status	



Rear view: Cordex HP 48V Integrated 75A System



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