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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 OPEX/CAPEX 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® CXCM1 HP controller, with GMT Fuse distribution, in a compact 1RU package.

Cordex® HP 1.2kW 1RU Integrated Shelf System with GMT Distribution

P/N: 030-851-20-XXX

Electrical	
Input Voltage	Operating: 90 to 300VAC [See output power for power derating]
Input Current (per module):	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):	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)
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 ¾" center 2-hole lugs
AC Input:	Dual IEC-60320-C20
Alarms:	Terminal block (#16 to #26 AWG)
*Note: Shelf P/Ns do not include rectifier module, GMT Fuses, or AC Line Cords	

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:	886.2 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
877-790-19:	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



Rear view: Cordex® HP 48V Integrated 75A System



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