



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 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		Environmental	
Input Voltage	Operating: 90 to 300VAC [See output power for power derating]	Temperature:	Standard: -40 to 65°C (-40 to 149°F) Extended: -40 to 80°C (-40 to 176°F) (de-rated output power)
Input Current (per module):	7.5A Maximum (176 to 300VAC) 6.0A Maximum (90 to 176VAC)	Storage:	-40 to 80°C (-40 to 176°F)
Efficiency:	>93% at 240VAC Input and 40-100% load	Humidity:	0 to 95% RH non-condensing
Power Output (per module):	1200W (176 to 300VAC input) 600W (110 to 130VAC input)	Elevation:	-500 to 2800m (-1640 to 9186ft)
*Power de-rated linearly from 1200-600W (176 to 130VAC input)		Cooling:	Fan cooled (front to rear)
*Power de-rated linearly from 600-500W (110 to 90VAC input)		Heat Dissipation:	886.2 BTU hour/system max.
Current Output (per module):	25A @ 48VDC (176 to 300VAC input) 12.5A @ 48VDC (110 to 130VAC Input)	Related Components	
Mechanical		010-619-20-041:	Cordex® HP 1.2kW 48VDC rectifier
Dimensions:	mm: 44H x 439.5W x 335D inches: 1.75H x 17.3W x 13.2D	0180054-001:	CXCM1 HP Cordex® Controller
*Note: Excludes Rectifier Front Handle and Optional Kydex Cover		877-690-19:	5-15P (120V) line cord, 2.5m
Mounting:	19" or 23" rack, 6" offset (center), EIA rack spacing	877-790-19:	Universal line cord, flying leads, 3.5m
Weight:	Shelf: 3kg (6.6lbs) Rectifier: 1.23kg (2.72lbs)	747-622-20-000:	Blank plate
Connections		5610638-001:	Kydex rear cover
GMT Fuse (Load):	(7) Positions (8A): Terminal block (##16 to #30 AWG) (1) Position (10A): Terminal block (##14 to #26 AWG)	036-201-20-000:	CXCM1 I/O terminal block kit
Battery:	1/4" on 5/8" center 2-hole lugs	Agency Compliance	
AC Input:	Dual IEC-60320-C20	Safety:	<ul style="list-style-type: none"> CSA C22.2 No 60950-1-03 CE marked
Alarms:	Terminal block (##16 to #26 AWG)	NEBS:	<ul style="list-style-type: none"> GR-1089-CORE GR-63-CORE
*Note: Shelf P/Ns do not include rectifier module, GMT Fuses, or AC Line Cords			



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



Alpha Technologies Services, Inc. USA: 3767 Alpha Way, Bellingham, WA 98226 Canada: 7700 Riverfront Gate, Burnaby, BC V5J 5M4
Toll Free North America: +1 800 322 5742 Outside US: +1 360 647 2360 Technical Support: +1 800 863 3364

For more information visit www.alpha.com

an EnerSys® company

© 2020 Alpha Technologies Services, Inc. All Rights Reserved. Trademarks and logos are the property of Alpha Technologies Services, Inc.
and its affiliates unless otherwise noted. Subject to revisions without prior notice. E. & O.E.

07/2020
#0480007-00 REV E