



an EnerSys® company

# Cordex® HP 1.2kW

## Front Access Power 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

P/N: 0300165-XXX

Electrical	
<b>Input Voltage:</b>	176 to 312VAC (nominal) 90 to 176VAC (de-rated O/P power)
<b>Input Current (per Module):</b>	7.5A max (176 to 300VAC) per module 6.0A max (90 to 176VAC) per module
<b>Efficiency:</b>	>93% at 240VAC input and 50-100% load
<b>Power Output (Per Module):</b>	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)
<b>Current Output (Per Module):</b>	25A @ 48VDC (176 to 300VAC input) 12.5A @ 48VDC (110 to 130VAC Input)
Performance / Features	
<b>Rectifiers:</b>	Cordex® HP 48-1.2kW
<b>Distribution:</b>	<b>Module:</b>
	<b>Supervisory:</b>
	<ul style="list-style-type: none"> <li>• (10) GMT fuse positions</li> <li>• (4) AM plug-in breakers</li> <li>• Battery low voltage disconnect</li> <li>• Battery shunt</li> </ul>
	CXCM1 HP controller
Mechanical	
<b>Shelf Dimensions:</b>	<b>mm:</b> 88H x 440W x 305D <b>inches:</b> 3.5H x 17.3W x 12.0D
*Note: Rectifier front handle adds additional 12.5mm/0.49" Depth)	
<b>Mounting:</b>	19" or 23" rack, 6" offset (center), EIA rack spacing
<b>Weight:</b>	<b>Shelf:</b> 4.55kg (10lbs) <b>Rectifier:</b> 1.23kg (2.7lbs)

Environmental	
<b>Temperature:</b>	<b>Standard:</b> -40 to 65°C (-40 to 149°F) <b>Extended:</b> -40 to 80°C (-40 to 176°F) de-rated output
<b>Storage:</b>	-40 to 80°C (-40 to 176°F)
<b>Humidity:</b>	0 to 95% RH non-condensing
<b>Elevation:</b>	-500 to 2800m (-1640 to 9186ft)
<b>Cooling:</b>	Fan cooled (front to rear)
<b>Heat Dissipation:</b>	1182 BTU hour/system max.
Agency Compliance	
<b>Safety:</b>	CSA C22.2 No 60950-1-03
<b>CE:</b>	EN60950
<b>NEBS:</b>	<ul style="list-style-type: none"> <li>• GR-1089-CORE</li> <li>• GR-63-CORE</li> </ul>
Related Components	
<b>010-619-20-041:</b>	Cordex® HP 1.2kW 48VDC rectifier
<b>0180054-001:</b>	Cordex® controller CXCM1 HP
<b>747-622-20-000:</b>	Blank plate
<b>747-082-20-071:</b>	6ft 3/8" Lug temp sensor
<b>747-028-20-071:</b>	6ft 1/4" Lug temp sensor



an EnerSys® company

**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](http://www.alpha.com)

© 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  
#048-741-10 REV F