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Cordex® HP 1.2kW

48VDC Modular Switched Mode Rectifier



- High performance compact 25A rectifier for 48VDC telecom application
- 93.9% efficiency for reduced OPEX and carbon footprint
- Extended temperature range (-40 to 80°C) enabling to deliver full rated output power up to 65°C for installation in harsh outdoor and indoor environments
- 1RU x 2RU footprint for multiple mounting options
- High power density (21.8W/in³) yields more space for revenue generating equipment
- Wide AC input range for a variety of global installation requirements

Cordex® High-Performance rectifiers make a proven, reliable platform even better, with significant advancements in efficiency and performance.

In 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 Cordex® HP 1.2kW is a perfect solution for small 48VDC power applications such as customer premise, xDSL, FTTx, distributed node B, and microwave. With a high operating efficiency and high temperature operation, CXC HP series rectifiers are also ideal for harsh outside plant enclosure installations.

Local and remote setup, adjustment and control is a simple single-step process with Cordex® CXC HP system controllers. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

Cordex® CXRF-HP 1.2kW Modular Switched Mode Rectifier

P/N: 010-619-20

Electrical	
Input Voltage:	Nominal: 176 to 276VAC Extended (high): 277 to 300VAC (de-rated power factor) Extended (low): 90 to 175VAC (de-rated output power)
Input Current:	Nominal: 7.4A max 90 to 132VAC: 6A max Input frequency: 45 to 70Hz
Power Factor:	>99%
THD:	<5% @ nominal input voltage
Efficiency:	93.9%
Output Voltage:	42 to 58VDC
Output Power:	Nominal AC Input: 1200W 110 to 132VAC: 600W (de-rated linearly to 491W @ 90VAC)
Output Current:	Nominal AC Input: 22.2A @ 54V (25A max @ 48V) 110 to 132VAC: 12.5A max (de-rated linearly to 10.2A @ 90VAC)
Load Regulation:	Static: <±0.5% Dynamic: <±1% for 40 to 90 to 40% load step, 2ms recovery time
Line Regulation:	Static: <±0.1% Dynamic: <±1% for any change within rated limits
Wide Band Noise:	<30mVrms <150mVp-p
Psophometric Noise:	<2mV
Performance / Features	
Indicators:	<ul style="list-style-type: none"> • AC mains OK — green LED • DC output OK — green LED • Module alarm — red LED
Cooling:	Fan cooled
Adjustments (Via CXC HP Controller):	<ul style="list-style-type: none"> • Float and equalize voltage • Battery test voltage • High and low voltage alarms high voltage shutdown • Current limit • Start delay time • Slope %
Protection:	<ul style="list-style-type: none"> • Current limit/short circuit • Input/output fuses • Output high voltage shutdown • Output power limiting • Thermal foldback/shutdown • Input transient • AC low line foldback/shutdown • AC high voltage shutdown

Mechanical	
Dimensions:	mm: 41.4H x 84.8W x 256.8D inches: 1.63H x 3.34W x 10.11D
Weight:	1.23kg (2.7lbs)
Environmental	
Temperature:	Operating: -40 to 80°C (-40 to 176°F); full rated output up to 65°C (149°F) Storage: -40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 3000m (-1640 to 9840ft)
Heat Dissipation:	<308 BTU per hour/90 Watts
Agency Compliance	
Safety:	<ul style="list-style-type: none"> • CSA C22.2 No 60950-1-03 • CE marked
EMC:	ETSI 300 386 Emissions: <ul style="list-style-type: none"> • CFR47 (FCC) Part 15 Class B • ICES-03 Class B • EN55022 (CISPR 22) Class B • C-tick (Australia) • EN 61000-3-2, 3-3 Immunity: <ul style="list-style-type: none"> • EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11 • ANSI/IEEE C62.41 Cat B3
NEBS/Telcordia:	<ul style="list-style-type: none"> • GR-1089-CORE • GR-63-CORE



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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

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