

Cordex HP™ 1.2kW

48Vdc Modular Switched Mode Rectifier



Your Power Solutions Partner

- High performance compact 25A rectifier for 48 telecom application
- 94% 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 flexible and 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, 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 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

Part Number: 010-619-20

ELECTRICAL

Input voltage:
 Nominal:..... 176 to 276Vac
 Extended (low):90 to 175Vac (de-rated output power)
 Extended (high):277 to 300Vac (de-rated power factor)

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:..... 94%

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:AC mains OK — green LED
 DC output OK – green LED
 Module alarm — red LED

Cooling: Fan cooled

Adjustments: Float and equalize voltage
 (via CXC controller) Battery test voltage
 High and low voltage alarms high voltage
 shutdown
 Current limit
 Start delay time
 Slope %

Protection:..... 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

AGENCY COMPLIANCE

Safety:.....CSA C22.2 No 60950-1-03
 CE marked

EMC: ETSI 300 386

Emissions:.....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:EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11
 ANSI/IEEE C62.41 Cat B3

NEBS / Telcordia:.....GR-1089-CORE
 GR-63-CORE

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