

Cordex HP™ 1.2kW

Front Access Rectifier Shelf System



Your Power Solutions Partner

- High performance compact 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
- 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 Op-Ex/Cap-Ex savings, reducing total cost of ownership and impact on the environment.

The 19" universal rack mount power system accommodates up to four Cordex HP 48V, 1.2kW rectifiers, a modular Cordex CXCM1 controller, with breaker and GMT Fuse distribution in a compact 2RU package.

Power



Cordex HP™ 1.2kW 48V Front Access Power System

Part Number: 030-834-20

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)

PERFORMANCE / FEATURES

Rectifiers:Cordex HP 48-1.2kW

Distribution:
 Module:(10) GMT fuse positions
 (4) AM plug-in breakers
 Battery low voltage disconnect
 Battery shunt

Supervisory:CXCM1 controller

MECHANICAL

Dimensions:
 mm:88H x 440W x 305D
 inches:3.5H x 17.3W x 12.0D
 *Note: Rectifier front handle adds additional 12.5mm/0.49" Depth)

Mounting: 19" or 23" rack, 6" offset (center),
 EIA rack spacing

Weight:
 Shelf:4.55kg (10lbs)
 Rectifier:1.23kg (2.7lbs)

ENVIRONMENTAL

Temperature:
 Standard:-40 to 65°C (-40 to 149°F)
 Extended:-40 to 80°C (-40 to 176°F) de-rated output

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:1232 BTU hour/system max.

STANDARDS

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

CE:EN60950

NEBS:GR-1089-CORE
GR-63-CORE

RELATED COMPONENTS

010-619-20Cordex HP™1.2kW 48Vdc rectifier

018-598-20Cordex™ controller CXCM1

877-690-19:5-15P (120V) line cord, 2.5m

877-790-19:120/240Vac Universal line cord,
 flying leads, 3.5m

747-622-20-000:Blank plate

GMT style fuses

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