

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 19/23" 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.

Power



Cordex HP™ 1.2kW 48V Front Access Power System

Part Number: 0300165-XXX

ELECTRICAL

Input:

Voltage: 176 to 312Vac (nominal)
90 to 176Vac (de-rated O/P power)
Current: 7.5A max (176 to 300Vac) per module
6.0A max (90 to 176Vac) per module
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-HP 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: 308 BTU hour/rectifier

STANDARDS

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

CE: EN60950

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

RELATED COMPONENTS

010-619-20-041: Cordex HP™ 1.2kW 48Vdc rectifier

0180054-001: Cordex™ controller CXCM1 HP

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

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