

# Power

## Cordex HP™ 1.2kW

Front Access Rectifier Shelf System



CXRF-HP 48-1.2kW

- › Up to 100A capacity @ 48Vdc for various small power applications
- › High Efficiency design for increased operational expense savings
- › High Temperature rated fan-cooled design for harsh outdoor installations
- › Wide range AC input and IEC line cords for multiple AC services
- › Front-access design for space restricted enclosures

**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.

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.

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.

# 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)

## Mechanical

### Dimensions:

mm:.....88H x 439.5W 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 (10.03lbs)

Rectifier:.....1.23kg (2.72lbs)

## Connections

### Load:

Breaker:.....1/4" on 5/8" center 2-hole lugs

GMT fuse:.....Terminal block (#16 to #24 AWG)

Battery:.....1/4" on 5/8" center 2-hole lugs

AC input:.....Dual IEC-60320-C20 MAIC connectors  
 (for use with IEC-60320-C19 female line cords)

Alarms:.....Terminal block (#16 to #24 AWG)

## Environmental

### Temperature:

Standard:.....-40 to 65°C (-40 to 149°F)

Extended:.....-40 to 80°C (-40 to 176°F)

(de-rated output power)

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.

## Related Components

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

## Standards

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

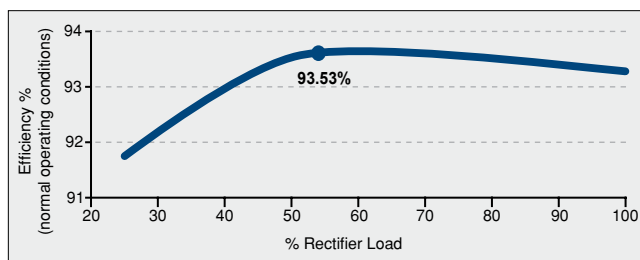
CE:.....EN60950

NEBS:.....GR-1089-CORE

GR-63-CORE

NEBS certification pending

## Cordex CXRF-HP 1.2kW efficiency



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