



SOL Series High-Performance (HP) 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 the reliable 48V, 1.2kW Cordex rectifier modules and front accessible fuse distribution connections. The system is a perfect solution for small 48Vdc power applications such as customer premise, xDSL, FTTx, distributed node B and microwave. High efficiency, high temperature operation, and a small 1RU footprint make the system ideal for harsh outside plant installations.

The 19" universal rack mount power system accommodates up to three Cordex HP 48V-1.2kW rectifiers and a modular Cordex CXCM1 controller, with GMT Fuse distribution, in a compact 1RU package.

- + Single shelf modular rectifier solution provides up to 75A 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 accessible fuse distribution for space restricted enclosures

1.2kW

1RU Integrated Shelf System with GMT Distribution

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:..... 44H x 439.5W x 305D

inches:..... 1.75H x 17.3W x 12D

*Note: Excludes Rectifier Front Handle and Optional Kydex Cover

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

EIA rack spacing

Weight:

Shelf:..... 3kg (6.6lbs)

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

Connections

GMT Fuse (Load):

(7) Positions:..... Terminal block (#16 to #30 AWG)

(1) Position:..... Terminal block (#14 to #26 AWG)

Battery:..... ¼" on ⅝" 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)

*Note: Shelf P/Ns do not include rectifier module or distribution breakers.

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:..924 BTU hour/system max.

Related Components

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

018-598-20:..... CXCM1 Cordex Controller

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

877-671-19:..... Universal line cord, flying leads, 3.5m

747-622-20-000:..Blank plate

567-837-19:..... Kydex rear cover

036-201-20-000:..CXCM1 I/O terminal block kit

Standards

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

CE marked

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

GR-63-CORE

*Consult factory for certification status



Rear view: Cordex HP 48V Integrated 75A System

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POWER SOLUTIONS

THE SOL SERIES

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