



The Sol Series 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 Sol Series 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 Sol Series Cordex CXCI system Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

- + 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/in<sup>3</sup>) yields more space for revenue generating equipment
- + Wide AC input range for a variety of global installation requirements

# CXRF-HP 1.2kW

## Modular Switched Mode Rectifier

### 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

### 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)

### 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 CXCI 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

### Environmental

Temperature:  
Operation: .....-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

**HELIOS**  
POWER SOLUTIONS

**THE SOL SERIES**

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