



The Sol Series High-Performance (HP) 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. Multiple 48V configurations are available up to 250A in a compact 1RU Shelf system.

The Sol Series Cordex HP 2.4kW is a perfect solution for various small to medium 48Vdc capacity applications including DAS, central office, headend, backhaul and wireless base stations. With a high operating efficiency, high power density and broad temperature operation, HP series rectifiers are also ideal for harsh outside plant enclosure installations.

Local and remote setup, adjustment and control are a simple, single-step process with the Sol Series CXC HP System Controller, featuring touch screen, color LCD display with front Ethernet USB connectors. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

- + High efficiency (>96%) for reduced Op-Ex and carbon footprint
- + High temperature operating range for installation in non-controlled environments
- + Multiple 48V configurations up to 250A in a compact 1RU shelf system
- + Industry leading power density (28W/in<sup>3</sup>) yields more space for revenue generating equipment
- + Wide AC input operating range for global installation requirements

## 2.4kW

### 48V Modular Switched Mode Rectifier

#### Electrical

Input voltage:  
Nominal: ..... 187 to 277Vac  
Operating: ..... 187 to 310Vac  
Extended: ..... 90 to 187Vac (de-rated power)  
Input frequency: ..... 45 to 66Hz  
Power: ..... 2400W continuous  
(1200W output @ 120Vac Input)  
Power factor: ..... >0.99 (50 to 100% load)  
THD: ..... <5%  
Efficiency: ..... >96%  
Output voltage: ..... 44 to 58Vdc  
Output current: ..... 44.5A @ 54Vdc (50A max.@ 48Vdc)  
(~25A @ 48Vdc at 120Vac Input)  
Load regulation: ..... <±0.5% (static)  
Line regulation: ..... <±0.1% (static)  
Transient response: ..... ±2% for 40 to 90% load step  
Noise:  
Voice band: ..... <32dBm  
Wide band: ..... <20mV RMS (10kHz to 10MHz)  
<100mV pk to pk (10kHz to 100MHz)  
Psophometric noise: ..... <1mV RMS  
Acoustic: ..... <60dBa @ 1m (3ft), 55C

#### Mechanical

Dimensions:  
mm: ..... 41H x 104x 333D  
inches: ..... 1.6H x 4.1W x 13.1D  
Weight: ..... 1.76kg (3.9lbs)

#### Environmental

Temperature:  
Operation: ..... -40 to 55°C (-40 to 131°F)  
Extended: ..... -40 to 75°C (-40 to 149°F), derated power  
2000W @ 65°C (167°F)  
Storage: ..... -40 to 85°C (-40 to 185°F)  
Humidity: ..... 0 to 95% RH non-condensing  
Heat Dissipation: ..... <430 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  
..... EN 61000-3-12, 4-3, 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

#### Shelves

>23in 1RU universal mount 12,000W P/N 0300057-001



Rectifiers: ..... 5 x CXRF HP 48-2.4kW  
Distribution: ..... Bulk power for external distribution  
Dimensions:  
mm: ..... 44H x 537W x 420D  
inches: ..... 1.75H x 21.1W x 16.5D  
Weight: ..... 5.7kg (12.6lbs)

>19in 1RU universal mount 9,600W P/N 0300040-001



Rectifiers: ..... 4 x CXRF HP 48-2.4kW  
Distribution: ..... Bulk power for external distribution  
Dimensions:  
mm: ..... 44H x 438W x 420D  
inches: ..... 1.75H x 17.3W x 16.6D  
Communications ports: CAN: interface to control rectifiers &  
smart peripherals  
Ethernet: ..... 10/100 Base-T for TCP/IP/SNMP features

**HELIOS**  
POWER SOLUTIONS

**THE SOL SERIES**

#### NEW ZEALAND

Phone: +64 9 835 0700  
Email: sales@heliosps.co.nz  
Address: 1 Heremai St,  
Henderson, Auckland 0612

[www.heliosps.co.nz](http://www.heliosps.co.nz)

#### AUSTRALIA

Phone: +61 2 7200 9200  
Email: sales@heliosps.com.au  
Address: Unit 6, 2-8 South St,  
Rydalmere, NSW 2116

[www.heliosps.com.au](http://www.heliosps.com.au)

#### ASIA

Phone: +65 6871 4140  
Email: sales@heliosps.asia  
Address: 168 Robinson Road,  
#12-01 Capital Tower, Singapore 048545

[www.heliosps.asia](http://www.heliosps.asia)