



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.

The Sol Series 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/in³) 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

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