

Power

Cordex HP™ 2.4kW

Modular Switched Mode Rectifier



- › 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

Cordex 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 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 Cordex CXC System Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

Cordex HP™ 2.4kW 48V Modular Switched Mode Rectifier

P/N: 0100003-001

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: <32dBnC
 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
 EN 61000-4-3
 EN 61000-3-3
 Immunity: EN 61000-4-2
 EN 61000-4-3
 EN 61000-4-4
 EN 61000-4-5
 EN 61000-4-6
 EN 61000-4-11
 ANSI / IEEE C62.41 CatB3
 NEBS / Telcordia: GR-1089-CORE
 GR-63-CORE

Cordex 48-2.4kW Rectifier 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

Related Components

Controllers: CXCR/CXCP
 Distribution: CXPS-M 1200
 AM plug-in breakers

Standard 48Vdc Power system

Cordex CXCR Controller CXPS-M 1200 Modular Distribution



Cordex HP 48Vdc-2.4kW Rectifier Shelf