

# Power

## Cordex HP™ 300W

Modular Switched Mode Rectifier



Cordex HP™ 300W Rectifier

- › High performance 300W rectifier provides unique combination of size, efficiency and performance
- › 94% Efficiency for increased Op-Ex savings and reduced carbon footprint
- › Compact size yields more space for revenue generating equipment
- › Wide range AC input for worldwide installation requirements
- › Dual front and back DC outputs allow maximum flexibility
- › Wide temperature operating range for installation in harsh outdoor and indoor environments

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 Op-Ex/Cap-Ex savings, reducing total cost of ownership and impact on the environment.

The Cordex HP 300W is a perfect solution for small 48Vdc industrial and telecom applications such as micro cells, broadband extension, LTE Networks, radio links and remote control and monitoring sites.

The Cordex HP 300W rectifier was designed and tested to operate in non-controlled environments and offers full power up to 70°C. The rectifier is protected against input under-voltage and support up to 300Vac without damage. It also includes an extensive list of features such as: output overvoltage and overload protections, smart output power limitation, thermal shutdown, hot swap and redundancy.

## Cordex HP™ 300W 48V Modular Switched Mode Rectifier

Part Number: 0100010

### Electrical

**Input voltage:**

Standard: ..... 90 to 265Vac  
Maximum: ..... 300Vac (without damages)

**Input frequency:** ..... 47 to 63Hz

**Power factor:** ..... 99%

**Input current:** ..... 1.40A @ 230Vac  
3A @ 110Vac

**Efficiency:** ..... 93.8%

**Output voltage:** ..... 43 to 58Vdc

**Output power:** ..... 300W

**Output current:** ..... 5.6A @ -54Vdc

**Load regulation:** ..... ±0.5%

**Line regulation:** ..... ±0.2%

**Wide band noise:** ..... <10mVrms

**Psophometric noise:** ..... <2mVrms

**Acoustic noise:** ..... <49dBA

### Performance / Features

**Indicators:** ..... LED off - no power available  
Green LED - no failure  
Orange LED - stand by (remote off)  
Red LED - Low DC voltage (<37Vdc)  
Blinking red LED - AC failure, thermal failure  
or short circuit

**Protections:** ..... Mains out of range (input fuse)  
Output overvoltage  
Output overload  
Short circuit current  
Smart power derating  
Thermal shutdown  
Hot swap

### Mechanical

**Dimensions:**

mm: ..... 41.5H (1U) x 86W x 166D  
inches: ..... 1.6H x 3.4W x 6.5D

**Weight:** ..... 0.57kg (1.2lbs)

### Environmental

**Temperature:**

Standard: ..... -40 to 70°C (-4 to 158°F)

Storage: ..... -40 to 85°C (-40 to 185°F)

**Humidity:**

Operating: ..... 20 to 80% RH non-condensing

Storage: ..... 10 to 95% RH non-condensing

**Elevation:** ..... Up to 3000m (9842ft)

**Cooling:** ..... Fan cooled (front to rear)

### Related Components

**Shelf:**

0300072: ..... Power shelf with 3 rectifier slots,  
DC distribution and control unit

**Supervisory:**

7400325: ..... Comp@s communication card

**Accessories:**

0100010-001: ..... Blank plate for rectifier slot

### Standards

**Safety:** ..... EN60950  
CE marked

**Environment:** ..... IEC 60068-2-27  
ETSI EN 300 019-1-3 class 3.4

**EMC:** ..... ETSI EN 300386

**NEBS:** ..... GR-1089-CORE  
GR-63-CORE

\*Consult factory for certification status