# Cordex HP 1.2kW

Modular Switched Mode Rectifier



CXRF-HP 48-1.2kW

- > HP "High Performance" series
- Up to 25A @ 48Vdc output
- > 93% efficiency and power factor correction
- High temperature operation, no de-rating to 65°C
- 1RU x 2RU footprint & high power density (21.8 W/in^3)
- Wide AC input operating range

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

## ARGUS

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### Cordex CXRF-HP 1.2kW Modular Switched Mode Rectifier

Part Number: 010-619-20

#### Electrical

| Input voltage:      | 170 to 0701/00                                     |
|---------------------|--|
| Nominal:            |  |
|                     | 90 to 175Vac (de-rated output power)               |
|                     | 277 to 300Vac (de-rated power factor)              |
| Input current:      |  |
| Nominal:            |  |
| 90 to 132Vac:       |  |
| Input frequency:    | 45 to 70Hz   |
| Power factor:       | >99%   |
| THD:                | <5% @ nominal input voltage                        |
| Efficiency:         | >93% 40%-100% load (nominal AC input)              |
|                     | >90% 40%-100% load (120Vac input)                  |
| Output voltage:     | 42 to 58Vdc  |
| Output power:       |  |
| Nominal AC input:   | 1200 Watts   |
| 110 to 132Vac:      | 600 Watts (de-rated linearly to 491 Watts @ 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,                |
| 2                   | 2ms recovery time                                  |
| Line regulation:    |  |
| Static:             | <±0.1%   |
| Dvnamic:            | <±1% for any change within rated limits            |
| Wide band noise:    |  |
|                     | <150mVp-p  |
| Psophometric noise: |  |
|                     |  |

#### Mechanical

#### Dimensions:

| mm:     | .41.4H x 84.8W x 256.8D |
|---------|-------------------------|
| inches: | .1.63H x 3.34W x 10.11D |
| Weight: | .1.23kg (2.7lb)         |

#### Features

| Indicators:          | AC mains OK — green LED<br>DC output OK – green LED<br>Module alarm — red LED |
|----------------------|---|
| Cooling:             | Fan cooled  |
| Adjustments:         | Float and equalize voltage  |
| (via CXC 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

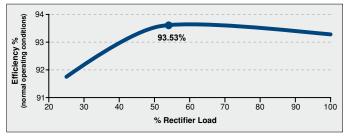
#### Temperature:

| Operation:        | 40 to 65°C (-40 to 149°F)        |
|-------------------|----------------------------------|
|                   | (power derated up to 80°C/176°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                |

#### Standards

| The Cordex HP 1.2kW is certified and/or designed to meet the following: |                             |  |
|---|-----------------------------|--|
| Safety:   | CSA C22.2 No 60950-1-03     |  |
|   | UL 60950-1 1st Edition      |  |
|   | CE marked                   |  |
|   | IEC/EN 60950-1              |  |
| 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                |  |
|   | 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 Cat B3     |  |
|   | -                           |  |
| NEBS / Telcordia:   |                             |  |
|   | GR-63-CORE                  |  |

#### Cordex CXRF-HP 1.2kW Efficiency



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