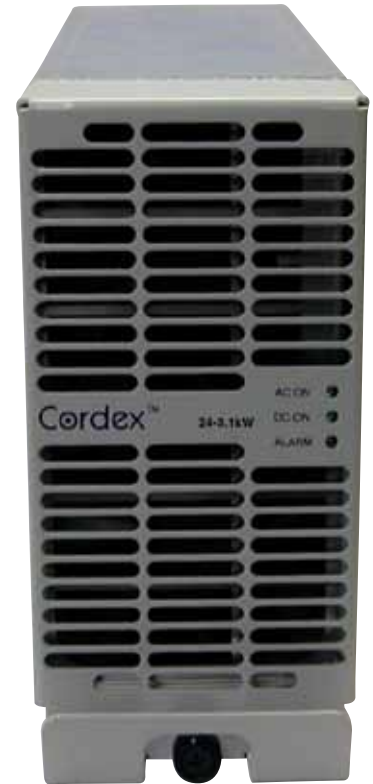


Power

Cordex™ 3.1kW

24Vdc Modular Switched Mode Rectifier



CXRF 24-3.1kW

- › Available in 130A @ 24Vdc
- › High power density, over 21kW per 23" shelf
- › Power limiting and wide range AC input
- › High efficiency and power factor correction
- › Hot swappable, 4RU ultra compact design

Cordex rectifiers bring advanced technology to the DC power industry. Innovative engineering combines the best in efficiency and reliability meeting the power requirements for a variety of system applications.

The 24Vdc Cordex 3.1kW rectifier has extremely high density providing the most power in the least amount of space. A compact 4RU shelf accommodates six rectifiers per 23" shelf and five rectifiers per 19" shelf.

Local and remote setup, adjustment and control is 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™ 3.1kW 24Vdc Modular Switched Mode Rectifier

Part Number:010-572-20

Electrical

> 3.1kW Rectifier Module(s)

Input voltage:
 Nominal:208 to 277Vac
 Operating:176 to 312Vac
 Extended:176 to 90Vac (de-rated power)

Input frequency:45 to 70Hz
 Power factor:>0.99 (50 to 100% load)
 THD:<5%
 Efficiency:>90%
 Output voltage:21 to 29Vdc
 Output power:3100W continuous/module
 Output current:115A @ 27Vdc (130A max. 24V)
 Load regulation:<±0.5% (static)
 Line regulation:<±0.1% (static)
 Transient response:±2% for 50 to 100% load step,
 2ms recovery time

Noise:
 Voice band:<32dBnC
 Wide band:<30mV RMS (10kHz to 10MHz)
 <150mVp-p (10kHz to 100MHz)

Psophometric:<1.0mV
 Acoustic:<60dBa @ 1m (3ft)

Performance / Features

Indicators:AC mains OK—green LED
 Module OK—green LED
 Module fail—red LED
 Controls:CAN interface to CXC
 Adjustments:Float voltage
 (via CXC controller) Equalize voltage
 High/low voltage alarm
 High voltage shutdown
 Current limit
 Slope
 Start delay
 Protection:Current limit/short circuit
 Start delay
 Input/output fuses
 Output high voltage shutdown
 Power limiting
 Thermal foldback/shutdown
 Input transient
 AC low line foldback shutdown

Mechanical

Dimensions:
 mm:160H x 87W x 300D
 inches:6.3H x 3.4W x 11.8D
 Weight:4.6kg (10lbs)



Typical 15.5kW 19" Shelf

Environmental

Temperature:
 Standard:-40 to 65°C (-40 to 149°F)
 Storage:-40 to 85°C (-40 to 185°F)
 Humidity:0 to 95% RH non-condensing
 Elevation:-500 to 4000m (-1640 to 13120ft)
 Heat dissipation:<1176 per hour

Shelves

> 19/23" shelf (5 modules)

Dimensions:
 mm:177H x 442W x 389D
 inches:6.9H x 17.4W x 15.3D
 Weight:8.5kg (19lbs)
 Mounting:Fits 19" rack flush/center mount
 Fits 23" rack center mount only

> 23" shelf (6 modules)

Dimensions:
 mm:177H x 530W x 389D
 inches:6.9H x 20.8W x 15.3D
 Weight:9.5kg (21lbs)
 Mounting:Fits 23" racks only flush/center mount

Connections

Input:Box type terminal block
 6 to 16mm² (10 to 6AWG)
 Output:Bus adapters with 3/8" studs on 1" centers
 Chassis ground:Compression lug
 6 to 16mm² (10 to 6AWG)
 CAN communication:RJ 12 offset

Agency Compliance

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
 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:GR-1089 CORE
 GR-69 CORE