



The Sol Series 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. This rectifier is specifically designed to recharge all types of stationary batteries for large utility, petrochemical and industrial uses.

The Sol Series Cordex 1.1kW is a compact 4RU allowing six rectifiers per 19" shelf. In addition to a range of standard features, the convection cooling will maintain ideal operating temperatures in the often dusty environments of utility applications.

Local and remote setup, adjustment and control is a simple, single-step process with the Sol Series Cordex CXC System Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

- + Switch mode rectifier provides 5A output @ 220Vdc
- + Power limiting and wide range AC input
- + Compliant with the stringent EMI immunity requirements for power station and substation environments
- + 93% efficiency with power factor correction
- + Convection cooled
- + Hot swappable, 4RU ultra compact design

1.1kW

220Vdc Modular Switched Mode Rectifier

Electrical

Input voltage:
Nominal: 208 to 277Vac
Operating: 176 to 320Vac
Extended: 176 to 150Vac (de-rated to 75%)
Input frequency: 45 to 66Hz
Power output: 1100W continuous/module
Power factor: >0.99 (input current)
THD: <5%
Efficiency: >93%
Output voltage: 180 to 320Vdc
Output current: 5A @ 220Vdc (5.5A max)
Load regulation: Static <±0.5%
Line regulation: Static <±0.1%
Transient response: <±2% for 50 to 100% load step,
10ms recovery time
Wide band noise: <30mVrms
<150mVp-p
Insulation: 2.5kVac input-earth
3kVac input-output
2kVac output-earth
0.5kVac signals-earth

Mechanical

Dimensions:
mm: 177H x 71W x 250D
inches: 6.9H x 2.8W x 9.8D
Weight: 2.9kg (6.4lbs)

Agency Compliance

The Cordex™ 1.1kW is 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 A
ICES-03 Class A
EN55022 (CISPR 22) Class A
C-Tick (Australia)
EN 61000-3-2, 3-3
Immunity: EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11
ANSI/IEEE C62.41 Cat B3
IECTS 61000-6-5 Immunity for power
station and substation environments

Environmental

Temperature:
Operation: -40 to 50°C (-40 to 122°F)
(up to 70°C/158°F power de-rated)
Storage: -50 to 85°C (-58 to 185°F)
Humidity: 0 to 95% RH non-condensing
Elevation: -500 to 4000m (-1640 to 13120ft)
Heat dissipation: <282 BTU per hour (max)

Performance/Features

Indicators: AC mains OK — green LED
Module OK — green LED
Module alarm — red LED
Cooling: Natural convection
Adjustments: Float and equalize voltage
(via CXCI 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
Earth leakage alarm

Shelves

P/N: 030-718-20
>19" shelf (6 modules)
Dimensions:
mm: 177H x 444W x 303D
inches: 6.9H x 17.5W x 11.9D
Weight: 7.3kg (16lbs)
Mounting: Fits 19" rack flush mount
Fits 19" or 23" center mount
Connections:
Input: Terminal blocks for 3 feeds
4 – 6mm² (12 – 10AWG)
Output: 1/4" studs on 5/8" centers
Chassis ground: 1/4" stud
CAN communication: RJ 12 offset

HELIOS
POWER SOLUTIONS

THE SOL SERIES

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