HELIOS
POWER SOLUTIONS

250W
12Vdc Modular Switched Mode Rectifier

OK
ALM

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

The Sol Series Cordex 250W rectifier is available in a 19" integrated shelf configuration, complete with distribution, controller, and capacity for four rectifiers. With 1kW total output per shelf, it is an ideal solution for applications requiring 12Vdc power.

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

+ Switched mode rectifier available in 20.8A @ 12Vdc

+ Universal 120/208 to 240Vac input

+ Power factor correction

+ Convection cooled

+ Hot swappable, 2RU ultra compact design

THE SOL SERIES

250W
12Vdc Modular Switched Mode Rectifier

Electrical

Input voltage: ....90 to 320Vac
Input frequency: ....45 to 70Hz
Power factor:.....................>99%
THD: ....<5%
Efficiency: ....>90%
Power output:....................250W
Output voltage: ....10.5 to 14.5Vdc
Output current: ....18.5A @ 13.5Vdc (20A max)
Load regulation: ....<±0.5% (static)
Line regulation: ....<±0.1% (static)
Transient response: ....±2% for 50 to 100% load step
2ms recovery time
Wide band noise: ....<30mVrms
<150mVp-p
Psophometric noise: ......<1mV

Performance/Features

Indicators: ....AC mains 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

Mechanical

Dimensions:
mm:.......................................88.4H x 71.6W x 242D
inches: ....3.4H x 2.8W x 9.5D
Weight: 1.4kg (3lbs)

Environmental

Temperature:
 Operation:...........................-40 to 50˚C (-40 to 122˚F)
(power de-rated up to 70°C/158°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: ....<94 BTU per hour

Shelves
>19" shelf

Dimensions:
 mm:. .... 88.9H x 444W x 279.4D
 inches: .... 3.5H x 17.5W x 11D
Weight: 8.5kg (18.7lbs)
Mounting: .... Fits 19" rack flush/center mount
Fits 23" rack center mount

Note: Consult factory for other 12" and 19" shelf configurations.

Connections
Input: .... Dual feed terminal blocks
4 to 6mm^2 (12 to 10AWG)
Output: .... 1/4" studs on 5/8" centers
Chassis ground: .... 1/4" stud
CAN communication: .... RJ 12 offset

Agency Compliance

The Cordex™ 250W 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 B
ICES-03 Class B
EN55022 (CISPR 22) Class B
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
NEBS/Telcordia: GR-1089-CORE
GR-63-CORE
GR-3108-CORE