HELIOS
POWER SOLUTIONS

650W
48Vdc Modular Rectifier Shelf Systems

The Sol series includes a complete range of modular 650W rectifier shelf systems to meet the needs of worldwide telecommunications applications.

The Sol Series 650W modular shelf systems are available to fit various 48Vdc application needs. 19" rear access solutions are available in a five-module (3.2kW) bulk output version as well as a four-module (2.6kW) integrated solution with an AM plug-in breaker distribution module. Complete front access versions are also available in 23" (4-module) and 19" (3-module) which include a distribution module accommodating both plug-in breakers and GMT fuses. CXCI HP integrated controllers are standard with all 650W shelf systems.

The Sol Series 650 W rectifier modules feature complete hot-swappability, high efficiency with power factor correction, unique power limiting capability and wide range input. Convection cooling and an ultra compact design also make Cordex shelf systems ideal for the telecommunications industry.

+ Single shelf modular rectifier solution provides multiple 48V configurations up to 67A for various 48Vdc applications

+ Convection cooled design for high reliability in harsh industrial environments

+ Front access options for space restricted enclosures

+ Integrated DC system capability with controller and distribution module options

THE SOL SERIES

650W

48Vdc Modular Rectifier Shelf Systems

48-650W Rectifier Shelves

19/23" 2RU universal mount
2.6kW Shelf power system
P/N:...........................030-728-20
Rectifiers:...............4 x CXRC 48-650W
Controller:.............1 x CXCI
Distribution:.........(4) AM bullet type breakers

19/23in 2RU universal mount
3.2kW bulk power system with CXCI controller.
Optional LVD shunt with battery breaker
P/N:...........................030-782-20
Rectifiers:...............5 x CXRC 48-650W
Controller:.............1 x CXCI
Distribution:.........Bulk power for external distribution

Electrical
Input voltage (100 to 240VAC model):
Operating:.............176 to 320Vac (output power 650W)
Extended:..............176 to 90Vac (derated output power)
Operating:.............100 to 140Vac (output power 500W)
Power output:.......650W at nominal 208 to 240Vac & 500W at nominal 120Vac with 240Vac rectifier

Universal input current:.....3.0 to 3.5A (nominal Vac)
                                       4.9A max. @ 150Vac
100 to 240Vac model:.........13.5A @ 48Vdc (240Vac)
                                       12A @ 54Vdc (240Vac)
                                       10.4A @ 48Vdc (120Vac)
                                       9.2A @ 54Vdc (120Vac)

Mechanical
19/23" Shelves
Dimensions:
     mm:....................89H x 442W x 302D
     inches:...............3.5H x 17.4W x 11.9D
Weight:....................6.9kg (15.5lbs)

Note: Shelf P/Ns DO NOT include modules or distribution breakers
Weights DO NOT include modules
Dimensions do not include mounting bracket

Communication ports:
CAN:........................Interface to control rectifiers.
                                  Smart peripherals
Ethernet:................10/100 Base-T for TCIP/SNMP features

Environmental
Temperature:
     Standard:..........-40 to 50°C (-40 to 122°F)
     Storage:.............-40 to 85°C (-40 to 185°F)
Humidity:...............0 to 95% RH non-condensing
Elevation:...............-500 to 3000m (-1640 to 9840ft)
Cooling:.................Natural or forced convection, vertical airflow

Agency Compliance
CSA:.........................CSA C22.2 No 60950-1-03
UL:............................Std. No 60950-01
CE:...........................EN60950