



an EnerSys® company

Cordex® 650W

48VDC Modular Rectifier Shelf Systems



- 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

Alpha's Cordex® series includes a complete range of modular 650W rectifier shelf systems to meet the needs of worldwide telecommunications applications.

Cordex® 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 Cordex® 650W 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.

Cordex® 650W 48VDC Modular Rectifier Shelf Systems

Cordex 48-650W Rectifier Shelves

19/23in 2RU Universal Mount



Cordex® 2.6kW Shelf Power System

P/N: 030-728-20-XXX

Rectifiers: 4 x CXRC 48-650W

Controller: 1 x CXCI HP

Distribution: 19/23in 2RU Universal Mount



Cordex® 3.2kW Bulk Power System

P/N: 030-782-20-XXX

Rectifiers: 5 x CXRC 48-650W

Controller: Optional 1x CXCI HP

Distribution: Bulk power for external distribution (optional LVD)

Electrical

Operating:	140-276VAC
Extended High:	276-310VAC (derated input power factor)
Extended Low:	80-140VAC (derate linearly to 60% output power, 500W @ 120VAC)
Power Output:	650W at 208-240VAC Nominal 500W at 120VAC Nominal
Input Current:	3.0 to 3.5A (208-240VAC) 5.7A Max @ 110VAC
Output Current:	13.5A @ 48VDC 12A @ 54VDC

Mechanical

4 Rectifier Shelf:

Dimensions: mm: 88H x 444W x 307D
inches: 3.5H x 17.5W x 12.1D

Weight: 8.5kg (18.7lbs)

5 Rectifier Shelf:

Dimensions: mm: 88H x 444W x 303D
inches: 3.5H x 17.5W x 12D

Weight: 7.3kg (16lbs)

Module:

Dimensions: mm: 88H x 71.6W x 242D
inches: 3.5H x 2.82W x 9.53D

Weight: 1.6kg (3.6lbs)

Note: Dimensions do not include mounting bracket

Communication Ports

CAN:	Interface to control rectifiers and smart peripherals
Ethernet:	10/100 Base-T for TCP/IP/SNMP features
USB:	Local backup and configuration transfer
I/O:	<ul style="list-style-type: none"> • 2 Digital Inputs (one used internally on systems with distribution) • 1 Voltage Sensor Input • 2 Temperature Sensor Inputs • 4 Dry Contact Outputs (one used internally on systems with LVD)

Environmental

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

Related Components

Rectifier:	010-570-20-041
Rectifier Blank:	613-465-W3
Controller:	0180056-001
6ft 1/4" Lug Temp Sensor:	747-028-20-071
6ft 3/8" Lug Temp Sensor:	747-082-20-071



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