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# 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

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

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

### Environmental

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

### Related Components

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



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07/2020

#048-647-10-00 REV G