

Power

Cordex™ System

48V Large Power Systems



Typical 48-216kW System

- 8,000A capacity
- Designed for MSCs, COs, and Cable Headend facilities
- Cordex 3.6kW modular rectifiers
- Circuit breaker and TPL fuse options
- Compact footprint
- Internal Bay-to-Bay copper busswork
- Expandable power and distribution bays

The Cordex 432kW power system provides high capacity DC power for large communications applications.

This system combines the capabilities of vista distribution, advanced microprocessor based supervision, and modular rectifiers in a seamless integrated package. Shunt mux option provides single point monitoring of branch distribution with data logging features.

The Cordex 432kW system is cost effective due to the internal copper busswork, and is delivered ready to assemble with factory tested components. No overhead support is required. Cable access is from the top for standard installations and bottom for computer floor applications. Hot swappable Cordex power modules and internal busswork provide safe and easy installation and maintenance.

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Electrical

AC input:	Single Phase, 208 to 277VAC Dual 3 Phase, 208 to 240VAC (w/o neutral) Dual 3 Phase, 360 to 480VAC (with neutral)
Rectifier Voltage:	208 to 277VAC
Max. bus capacity:	10,000A System 2,000A per bay

Distribution

Fuses	
TPL:	2 position, 61 to 800A
Breakers	
GJ/GJ1P:	1 pole up to 225A, 2 pole 250 to 400A, 3 pole 450 to 700A
Output termination	
TPL fuse:	2 hole 1/2" dia. on 1 3/4" centers or 2 hole 3/8" dia. on 1" centers
GJ breaker:	1 pole and 2 pole are 3/8" to 16, 3 pole are 2 hole, 1/2" dia. on 1 3/4" centers or 3/8" dia. on 1" centers
Ground bar:	Overhead buss ground, 15 sets of 2 hole 1/2" dia. on 1 3/4" centers (basic system)

Mechanical

Enclosure:	1.095mm (14 gauge) steel
Mounting:	Standard 23" relay rack (flush rack mount) in box bay
Dimensions	
cm:	213H x 71W x 71D
inches:	84H x 28W x 28D
Weight:	Approx. 272kg (600lb) per bay (no rectifiers)

Environmental

Temperature:	0 to 50°C (32 to 122°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)

Related Components

Cordex 48-3.6kW Rectifier

See 3.6kW datasheet #048-634-10 for more detailed information.

System Level Alarms/controls

Alarms/control parameters are user-programmable through built-in digital supervisory unit. See Cordex datasheet #048-631-10 for detailed information on alarms and controls.

Indicators:	LCD with touch screen System OK (green LED) System minor alarm (yellow LED) System major alarm (red LED)
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Load Disconnect:	48VDC/1200A x N mounted on load side
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Alarm

Connections:	0.34 to 2.5mm ² (14 to 22AWG)
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Smart Peripheral Modules

Shunt Multiplexer:	16 shunts per module
Battery Cell Monitor:	1 string, 2V cells per module
Battery Cell Monitor:	4 strings, 12V blocks per module