CXPS 48-1.8-i Standard 48Vdc Power System



CXPS 48-1.8-i Power System shown with 1.8kW rectifiers

- > Integrated 48V, 150A power system with front access distribution
- > High temperature rated, fan-cooled design for harsh outdoor installations
- > Wide range AC input for multiple worldwide AC services
- > Flexible ordering options including configurations with racks and battery trays

Alpha CXPS standard power systems bring proven Cordex[™] technology into a standard integrated system package. The CXPS 48-1.8-i uses high-density 48V-2kW or 48V-1.8kW rectifiers, a front access distribution center and the integrated CXCI system controller.

The CXPS 48-1.8-i is the ideal solution for small to medium 48Vdc applications, providing up to 150 Amps output. With universal 19/23" mounting, high temperature operation and 12.2" depth, it is a perfect solution for a wide variety of installation scenarios including those in harsh, outdoor environments.

The distribution center provides (14) plug-in breaker positions for load distribution, (4) battery breaker positions, integrated shunt and LVD. All load breaker, battery breaker and controller I/O connections are front accessible. The integrated CXCI controller includes a web server, providing easy setup via local or remote IP access, using a standard Windows Internet Explorer browser. The CXCI also includes LED indicators and an LCD screen for voltage and current display.

The CXPS 48-1.8-i can be integrated easily into customer provided relay racks or enclosures or can be ordered factory-installed into various Alpha relay rack configurations, including systems with pre-wired battery trays.





CXPS 48-1.8-i Standard 48Vdc Power System

Part Number: 053-990-20

Electrical

Input:

Voltage:187 to 312Vac (nominal)

90 to 187Vac (de-rated O/P power)

Frequency:45 to 66Hz

Efficiency:....>94.2 peak @ 240Vac

Power factor:>.99

Output:

Current:

26A @ 48Vdc (120Vac)

(de-rated linearly to 18.75A @ 90Vac)

Power:

System:8000W max @ nominal I/P

5000W @ 120Vac I/P Rectifier:....2000W max @ nominal I/P

1250W (120Vac)

Performance / Features

Configurations:

053-990-20-000:Base system with 19/23" universal mounting 053-990-20-040:System mounted in 23", 44RU Z4 rack with

2x battery trays for 2x 48V strings 053-990-20-031:....System mounted in 19", 44RU Z4 rack with

3x battery trays for 3x 48V strings

style)

4x battery breaker positions (series-trip, plug-in style) Low voltage disconnect

Shunt

Controller:.....CXCI integrated controller

Note: Specifications listed are for Cordex HP 2kW 48Vdc rectifier

Mechanical

Dimensions:

(-000 configuration - excludes mounting

brackets, rear cover, and module handle)

Weight:

Mounting:19/23" universal mount (center or flush)

Connnections:

(#16 to #26 AWG)

CXCI input:25-pin D-Sub cable

Access:....Front access after installation

Environmental

Temperature:....-40 to 55°C (-40 to 131°F)

-40 to 75°C (-40 to 167°F) de-rated output

~1800W @ 65°C (149°F)

-500 to 4000m (-1640 to 13100ft)

with de-rated output

Related Components

Cordex HP™ 2kW 48Vdc rectifier Cordex™ 1.8kW 48Vdc rectifier Cordex™ controller CXCI AM plug-in breakers



Distribution center rear view

Alpha Technologies Ltd.

For more information visit www.alpha.ca