

CXPS 48→24-i

48 to 24V DC-DC Converter System



Your Power Solutions Partner

- Integrated 8kW capacity 48-24Vdc converter system with front access distribution
- Support for small to medium 24Vdc loads from a 48V power system
- Integrated Cordex CXCi controller for advanced local and remote monitoring and control
- Internal low voltage smart shutdown feature for cost effective integration into existing systems
- Universal 19/23" mounting for flexible installation options into existing racks



Alpha CXPS standard power systems bring proven Cordex technology into a standard integrated system package. The CXPS 48→24-i uses high density CXDF 24-48/2kW DC-DC converters, a front access distribution center, and the advanced, CXCi controller.

The CXPS 48→24-i is a perfect solution for various small 24Vdc applications, co-located to existing 48Vdc power system. With a small footprint and high temperature operation, it is ideal for outside plant installations. The system provides up to 296A @ 27Vdc, and includes 18 total (1-100A) breaker positions.

The system is a universal 19" or 23" rack mount design and can be easily integrated into various racks, boxbays, or enclosures.

Power



CXPS 48→24-i 48 to 24V DC-DC Converter System

Part Number: 0530039-001

ELECTRICAL

Input:

Voltage:-42 to -60Vdc

Current:

System:Feed A: <96A @ +24V input (110A max)

Feed B: <96A @ +24V input (110A max)

Converter:<48A @ +24V input (105A max)

Efficiency:>88% (50-100% load @ nominal voltage)

Output:

Current:

System:296A max @ 27Vdc

Converter module:74A max @ 27Vdc

Power:

System:8000W max @ 54Vdc output

Converter module:2000W max @ 54Vdc output

PERFORMANCE / FEATURES

Configurations:

0530039-001:Base system with 19/23" universal mounting

Converter:Up to 4x CXDF 48-24/2kW converter positions

Distribution:18x load breaker positions
(mid-trip, plug-in style)

Shunt:

Controller:CXCI integrated Controller

MECHANICAL

Dimensions:

mm:222H x 438W x 310D

inches:8.75H x 17.24W x 12.2D

(-000 configuration - excludes mounting
brackets, rear cover, and module handle)

Weight:

System:19kg (42lbs)

Converter:2.8kg (6.2lbs) each

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

Connections:

Load breaker:18x sets, 1/4"-20 studs on 5/8" centers

Return bar:18x sets, 1/4" holes on 5/8" centers

Alarm:Screw terminal 1.31mm² to 0.128mm²
(#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 65°C (-40 to 149°F) de-rated output

Humidity:0 to 95% RH non-condensing

Elevation:-500 to 2800m (-1640 to 9186ft)

RELATED COMPONENTS

Cordex CXDF 48-24/2kW

Cordex controller CXCI

AM plug-in breakers (load)

STANDARDS COMPLIANCE

This product is designed to meet or exceed the following:

FCC 47 CFR part 15:Class A radiated and conducted EMI

EN 55022 (CISPR 22):Class A radiated and conducted EMI

ENV 50204:Radiated electromagnetic immunity
(digital radio and telephones)

EN 61000-4-2:ESD immunity

EN 61000-4-3:Radiated electromagnetic immunity

EN 61000-4-4:Electrical fast transients burst immunity

EN 61000-4-6:Conducted electromagnetic immunity

CE:EN 60950-1

CAN/CSA (NRTL/C):C22.2 No. 60950-1-03

ANSI/UL (NRTL):60950-1

GR-63-CORE:Vibration and shock

GR-1089-CORE:Electromagnetic compatibility and
electrical safety

Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233

United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

#0470028-00 Rev C (07/2016)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.

Copyright © 2016 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.

member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The  Group™