

Power

Cordex™ CXCI⁺ System Controller



- › Compact controller option for 2RU rectifier and DC/DC converter shelves
- › Modular, hot swappable design for 1.8/2.0kW CXRF and CXDF shelves
- › Internet ready and remotely accessible for complete system monitoring and control
- › Integrated SNMP functionality for cost effective multiple site monitoring
- › Advanced battery monitoring and power save features for Op-Ex savings
- › Highly configurable platform with user definable alarms and data logging

Cordex CXC controllers bring advanced monitoring technology to the Cordex series of rectifiers and DC/DC converters. The compact CXCI⁺ system controller replaces the legacy CXCI as the embedded shelf controller for a variety of 2U rectifier and converter shelves. The CXCI⁺ is completely forwards and backwards compatible with all applicable Alpha 2U power shelves which traditionally included the CXCI.

The CXCI⁺ also now provides 1.8/2.0kW and CXDF shelf systems with a modular, hot-swappable controller design allowing for ease of installation and replacement. The CXCI⁺ also includes various other improvements over the CXCI including: Real time clock, radiated emissions improvements, increased memory, and various other circuit robustness improvements.

The integrated CXCI⁺ controller includes a web server, providing easy set up 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 integrated logging feature, typically only available with an advanced standalone data logging system, allows the capture of data from multiple analog and digital inputs. The CXCI⁺ I/O feature set can be easily expanded with the addition of CXC Smart Peripherals such as battery cell monitoring, shunt multiplexing, and alarm relay expansion.

Cordex CXC system controllers ensure effortless operation of the Cordex family. Time consuming, complicated set up and monitoring of DC power systems are now a thing of the past.

Cordex CXCI⁺ System Controller

Part Number: 1.8kW/2.0kW/CXDF systems: 7400232

250W/400W/650W systems: 7400233

List 98 option on 2U rectifier and converter shelves

Features

› User Interface

GUI: Embedded web based GUI accessed via ethernet or modem using internet browser (IE6 and above)

Display: 4 Segment LCD display for V & I display

Audio: Built in speaker for audible alarm

LED indicators: System OK – Green
Minor alarm: Yellow
Major alarm: Red

› Rectifier Features

- Single point adjustment
- Auto load share
- Power save
- Power on delay start

› Battery Features

- Temperature compensation
- Manual, auto & periodic equalize
- Battery current terminate equalize
- Battery over temp equalize shutdown
- Dynamic charge current control
- Battery runtime & capacity indication
- Battery low capacity warning
- Auto or manual battery test mode

› System Features

- CAN Bus interface to Cordex rectifiers and Smart Peripheral modules
- Password protection
- Virtual rectifier, battery & shunt addition current
- User configurable alarms
- User configurable signals
- Languages for english, chinese & 3rd language option
- Downloadable software & firmware upgrades
- Lithium battery backup for real time clock
- Modular design

› Communication

Alarm relays: Potential free Form C contacts

SNMP: SNMP v2.5 via ethernet.
Requires SNMP management software (e.g., HP Open view, SNMPc)

Email: SMTP via ethernet or modem

› Communication Ports

CAN: Interface to Cordex series rectifiers, DC/DC converters and optional smart peripheral modules

Ethernet: 10/100 Base T with half/full duplex

› System I/O

Alarm relays: 4 (3 + 1 internal on some models)*

Voltage inputs: 1 + 1 internal

Temp inputs: 2

Current inputs: 1 (0 + 1 internal on some models)

Digital inputs: 2

*I/O identified as internal are used in some configurations for internal monitoring and control and are not available for external connection

› Log Files

Daily statistics: Min., max. and average on analogue input channels with date and time stamp
Battery current, rectifier current and AC mains voltage for last 90 days

Event log: All events such as alarms, power on, change of state on digital inputs or other events

Battery log: Battery health history on last 20 discharges with time of discharge and battery capacity.

Data logging: Up to 16 user configurable logs of all system signals including Smart Peripherals

Electrical

Input voltage: 10 to 65Vdc

Current: <100mA @ 48Vdc
<200mA @ 24Vdc
<400mA @ 12Vdc

Mechanical

Dimensions:
mm: 88H x 26W x 280D
inch: 3.5H x 1W x 11D

Mounting: Modular option for Cordex™ 2RU series shelves

Environmental

Temperature: -40 to 65°C

Humidity: 0 to 95% RH non-condensing

Related Components

036-201-20: CXCI I/O terminal block extension with 25-pin D-sub cable for 1.8kW rectifier shelves

Agency Compliance

Safety: UL/CSA C22.2 No 60950-1
IEC/EN 60950-1
CE marked

EMC: ETSI 300 386

Emissions: CFR47 (FCC) Part 15 Class A
ICES-03 Class A
EN55022 (CISPR 22) Class A
C-tick (Australia)

Immunity: EN 61000-4-2,-3,-4,-5,-6