

Power

Cordex™ CXCR/CXCP System Controller



CXCR Rack Mount Controller

- › Flexible rack and panel mount controller for use with Cordex™ rectifier and DC/DC converter platforms
- › 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 OPEX savings and reduced carbon footprint
- › Highly configurable platform with user definable alarms and data logging provides maximum flexibility with a common platform

Cordex CXC controllers bring advanced monitoring technology to the Cordex series of rectifiers. The CXC controller comes in a wide array of mounting options including rack mount (CXCR) and panel mount (CXCP). Panel mount controllers are integrated into distribution centers ensuring ease of use and efficient space utilization.

The CXC controller includes a PDA-style touch screen GUI for simple and convenient local setup. A built-in web server provides alternate setup via local or remote IP access using a standard Windows Internet Explorer browser.

The integrated logging feature allows the capture of data from multiple inputs for AC/DC voltages, load/battery current, and cell voltage/temperature. Common applications of the CXC logging include power system details, thermal performance of outdoor enclosures, battery cell specifics, or mains variations captured by an AC voltage watchdog. The CXC 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 entire Cordex family. Time consuming, complicated set up and monitoring of DC power systems are now a thing of the past.

Cordex CXCR/CXCP System Controller

Part Number: 018-557-20

Features

› User Interface

GUI: LCD touch screen display for local access
 Embedded web based GUI accessed via ethernet or modem using internet browser (IE6 and above)

Display: Full graphic LCD, 160x160 pixels, with backlight and contrast adjustment

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 and periodic equalize
- Battery current terminate equalize
- Battery over temp equalize shutoff
- Dynamic charge current control
- Battery runtime and 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

› Communications

Alarm relays: Potential free form C contacts

SNMP: SNMP v2.5 via ethernet.
 Requires SNMP management software (e.g., HP openview, SNMPC)

Email: SMTP via ethernet or modem

Modbus: TCP/IP

› Communication ports

CAN: Interface to Cordex series rectifiers and optional smart peripheral modules

RS-485: For optional Pathfinder rectifier control

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

Modem: Internal option via list option
 External option via rear RS-232 port

Serial: RS-232 (front)

› System I/O

Alarm relays: 8 (expandable to 16)

Voltage inputs: 2

Temp inputs: 2

Current inputs: 4

BiV inputs: 2

Digital inputs: 8

› Log files

Daily statistics: Min., max. and average on analog 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: 17 to 65Vdc

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

DCCT power: +/-15Vdc 100mA max

Mechanical

CXCR/CXCP (excluding brackets) Dimensions:

mm: 131H x 425W x 100D

in: 5.1H x 16.7W x 3.9D

Weight: 6.2kg (3.9lb)

Mounting:

CXCR: 19" or 23" rack mount

CXCP: Panel mount

Environmental

Temperature: -40 to 65°C

Humidity: 0 to 95% RH non-condensing

Related Components

List 101: Internal modem

Agency Compliance

Safety: CSA C22.2 No 60950-1-03
 CE marked

EMC: ETSI 300 386

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

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