

# Power

## Cordex™ CXC System Controller



CXCR Rack  
Mount Controller

- LCD touch-screen and web based GUI
- Internet ready, integrated SNMP
- User definable alarms and data logging
- Flexible battery management features
- Multiple mounting and installation options
- Upgradeable I/O via CXC Smart peripherals

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), panel mount (CXCP), and a module configuration (CXCM) for installation in 1kW Cordex rectifier shelves.

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 Cordex rectifier family. Time consuming, complicated set up and monitoring of DC power systems are now a thing of the past.

## Cordex CXC 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

#### 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
Voltage inputs:	2
Temp inputs:	2
Current inputs:	1 for CXCM 4 for CXCP/CXCR
BiV inputs:	1 for CXCM 2 for CXCP/CXCR
Digital inputs:	3 for CXCM 8 for CXCP/CXCR

### Features continued

#### 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

### Mechanical

#### Dimensions:

CXCR/CXCP (excluding brackets)	
mm:	131H x 425W x 100D
in:	5.1H x 16.7W x 3.9D
CXCM	
mm:	177H x 74W x 255D
in:	6.9H x 2.9W x 10D

#### Mounting:

CXCR:	19" or 23" rack mount
CXCP:	Panel mount
CXCM:	Plug-In on 1kW series shelves

#### Weight:

CXCR/P:	6.2kg (3.9lb)
CXCM:	1.8kg (3.9lb)

### Environmental

Temperature:	-40 to 65°C
Humidity:	0 to 95% RH non-condensing

### Related Components

List 101:	Internal modem
-----------	----------------

### Standards

Safety:	UL/CSA C22.2 No 60950-1 IEC/EN 60950-1 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,-3,-4,-5,-6