Cordex™ CXC

System Controller

CXCR Rack Mount Controller

> ❯ Flexible rack and panel mount site controller for use with all Cordex™ rectifier 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 Op-Ex savings

> ❯ 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), 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.

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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

⋗ 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

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

CXCM Dimensions:
  mm: ....177H x 74W x 255D
  in: ....6.9H x 2.9W x 10D
Weight: 1.8kg (3.9lb)
Mounting: ....Plug-In on 1kW series shelves

Environmental

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

Related Components

List 101: ....Internal modem

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 B
ICES-03 Class B
EN55022 (CISPR 22) Class B
C-tick (Australia)
Immunity: ....EN 61000-4-2,-3,-4,-5,-6

For more information, please contact Australian Distributor:

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