

Power

Cordex™ CXCR 125/220V

System Controller



CXCR 125/220V
Rack Mount Controller

- › Flexible rack mount controller for use with 125/220Vdc Cordex™ rectifier platforms
- › Internet ready and remotely accessible for complete system monitoring and control
- › Integrated SNMP and MODBUS TCP/IP 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
- › Integrated Ground Fault Detection (GFD) circuit to ensure system safety

Cordex CXC controllers bring advanced monitoring technology to the Cordex series of rectifiers. The CXCR 125/220Vdc controller is a rack mount controller used with the Cordex 125/220Vdc 1.1kW and 4.4kW rectifiers.

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.

Cordex CXC system controllers ensure effortless operation of the entire Cordex 125/220Vdc rectifier family. Time consuming, complicated set up and monitoring of DC power systems are now a thing of the past.

Cordex CXCR 125/220V System Controller

Part Number: 018-570-20

Electrical

Input voltage:90 to 300Vdc
 DCCT Power: +/- 15Vdc, 100mA max

Features

Display:.....LCD touchscreen display (160 x 160 pixels)
 "OK / Major / Minor" 3-color, LED display
 Web based GUI via ethernet

Communication ports:.....RJ45 ethernet port (front accessible rear port)
 RS232 craft port (front)
 RS232 modem port (optional)

Ground Fault Detection:.....Built in user adjustable. 0-10mA

Controller I/O:

Voltage inputs:.....1
 Current inputs:.....1 shunt +1 DCCT
 Temperature inputs:2
 Digital inputs:.....4
 Bi voltage inputs:.....4
 Relay outputs:.....8

➤ 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

➤ 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

Mechanical

Mounting: 19" or 23" rack mounting

➤ CXCR 125/220V (excludes mounting brackets)

Dimensions:
 mm:..... 131H x 431W x 100D
 inches:..... 5.1H x 16.9W x 3.9D
 Weight:..... 6.2kg (13.8lbs)

Environmental

Temperature:

Extended: -40 to 65°C (-40 to 149°F)
 Humidity: 0 to 95% RH non-condensing

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