

Cordex™ CXCM1+

System Controller



Your Power Solutions Partner

- Modular, hot swappable controller for use with HP 1.2kW rectifier platform
- 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
- Highly configurable platform with user definable alarms and data logging

Cordex CXCM1+ controllers bring advanced monitoring technology to the Cordex series of rectifiers. The compact CXCM1+ system controller is an option for 1.2kW Cordex rectifier systems and includes the complete standard range of Cordex software features.

The modular CXCM1+ controller includes a web server, providing easy set up via local or remote IP access using a standard Windows Internet Explorer browser. The CXCM1+ also includes LED indicators and a display for monitoring load current and bus voltage.

The integrated logging feature, typically only available with an advanced standalone data logging system, allows the capture of data from multiple inputs for AC/DC voltages, load/battery current, and cell voltage/temperature. Common applications of the CXCM1+ logging include power system details, thermal performance of outdoor enclosures, battery monitoring, or mains variations captured by an AC voltage watchdog.

The CXCM1+ I/O feature set can be easily expanded with the addition of CXC Smart Peripherals such as shunt multiplexing, alarm relay expansion, and digital input expansion. Cordex CXCM1+ 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 CXCM1+ System Controller

Part Number: 0180030-004, 0180030-005

FEATURES

Display

- 4 segment LCD for V/I display
- OK / Major / Minor" 3-color, LED display
- Web based GUI via ethernet

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 shutoff
- 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

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

Communication ports: RJ45 ethernet port (front)

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 (1 + 1 internal on some models)

*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: 17 to 65Vdc
Current: <100mA @ 48Vdc

MECHANICAL

Mounting: Modular controller for 1.2kW shelves.
 Horizontal and vertical mounting configurations available (consult factory)

Dimensions:
 mm: 44H x 88W x 318D
 inches: 1.73H x 3.5W x 12.5D
 weight: 1.8kg (3.9 lbs)

ENVIRONMENTAL

Temperature: -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

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