

■ AC Power
For *Business-Critical Continuity™*

Liebert® RX Remote Power Distribution Cabinet

Industry's Smallest Footprint; 400 Amp, 84 Poles



A Space-Saving, Flexible Solution for High Density Power Distribution

The influx of client/server rack equipment is changing the content of data centers. There are more devices than before, and they consume more power than their predecessors. Space is at a premium, so the data center power support infrastructure must be compact and flexible, to meet changing room demands.

The Liebert RX supplies packaged power distribution in the smallest possible footprint, with 400 Amp and 84 poles in one panelboard, and only requiring 24"x12" of space.



Flexibility

- 84 poles in a 24"x12" footprint. Up to 168 poles in a 24"x24" footprint
- Multiple configuration options allow optimization of data center space – two, three or four units may be installed in space-saving clusters
- Floor or wall mount, or attach to supports at end of rack aisle
- Fits standard raised-floor tile, while permitting removal of adjacent floor tiles

Higher Availability

- The 100% rated 400 Amp main circuit breaker better coordinates with today's 30A and 60A branch breakers than smaller 225A mains, providing better selective tripping.
- Each panelboard is totally isolated – any potential arc flash is contained within the cabinet when installed back-to-back and each is receiving a separate feed from a dual bus system
- Factory assembled and tested to ensure reliability and consistent performance
- Wide open access channels provide six inches of access space, and individual hinged covers, allowing easy addition of future circuits

Lowest Total Cost Of Ownership

- Compact cabinet conserves valuable floor space
- Packaged system is easy to install, maintain and add additional circuits

Ideally Suited For

- Data centers
- Telecommunications
- Manufacturing

For ease of wiring organization and installation, the conduit-landing plates in the top and base of the unit feature 84 holes as standard. Optional configurations available: 56 holes for 1/2" conduit and 28 holes for 3/4" conduit.





LDMF Monitoring Screen

System Monitoring

The Liebert RX is available with two monitoring options: at the panelboard level with Current Plus Monitoring (CPM) and at the panelboard level and the branch circuit level with Liebert Distribution Monitoring (LDMF).

Panelboard Monitoring:

The integral **Current Plus Monitoring (CPM)** optional display monitors the current and voltage of the panelboard. The display includes a monochrome LCD, power and alarm LEDs, audible alarm, and a silence push button. It provides true RMS measurements and battery backed memory.

Monitored parameters include:

- Voltage - Line-to-Line
- Voltage - Line-to-Neutral
- Neutral Current
- Ground Current
- kVA
- Power Factor
- Voltage Total Harmonic Distortion (THD)
- Current Total Harmonic Distortion (THD)
- Crest Factor

Branch Circuit Monitoring:

Advanced monitoring is available through the optional **Liebert Distribution Monitoring (LDMF)** display. This option provides a large LCD screen that allows viewing of monitored information for the panelboard as well as each individual branch circuit breaker. Alarm data may be viewed from this display for up-to-date breaker status. It provides true RMS measurements and battery backed memory.

Monitored parameters are the same as those for the CPM monitor, plus for each branch circuit:

- Phase Current
- kW
- kW- hours
- Percent load

Centralized Monitoring

- An optional Liebert SiteScan interface allows centralized monitoring of the Liebert RX.
- A Liebert IntelliSlot communications card may be installed to allow monitoring through a Building Management System (BMS). RJ-45 Ethernet and BACnet options are available.



High-Availability Configurations

The flexible Liebert RX is easily configured to accommodate current site needs and future growth.



Single, 1'x2', 84pole, 400A

- Wall mounted
- Back supported by column, unistrut, or wire cage



Double, 1'x4', 168pole, 2x400A

- Wall mounted
- Back supported



Double, 2'x2', 168pole, 2x400A

- Free standing
- Drop-in replacement for floor tile



Triple, 2'x3', 252pole, 3x400A

- Free standing
- Panelboards front, rear, one side



Quadruple, 2'x4', 336pole, 4x400A

- Free standing
- Panelboards front, rear, both sides

Standard Features

Input/Output Voltages (VAC):

208Y/120, 220Y/127, 240Y/139
380Y/220, 400Y/230, 415Y/240, 480Y/277.

Input Frequency: 50 Hz, 60 Hz.

Input Connections: 4-wire plus ground.

Cable Access: Top and bottom-access for input and output cables. Top and base has 84 conduit-landing holes standard.

Service Access: Front.

Service Clearances: 36" front.

Cooling: Convection cooling only; no fans. Heat rejection through screened opening in top. *Note: Minimum 18" clearance above unit.*

Input Breaker: 100% rated 400Amp panelboard mains.

Panelboard: One 84-pole 400A panelboard.

Grounding: Isolated neutral and safety-ground bus bars. Neutral bus and wiring sized 1.73 times load.

Agency Approvals: UL-60950, C-UL.

Base Dimensions: 24x12 inches, 610x305 mm.

Overall Dimensions (WxDxH):

24x13x78.7 inches 610x328x2000 mm.

Weight: 225 pounds (102 kilograms).

Optional Features

- Current Plus Monitoring (CPM) with display
- Liebert Distribution Monitoring (LDMF) with display
- Liebert IntelliSlot communications cards
- No panelboard main breaker
- ABB 42 pole Finger-safe panelboard

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