MPH™ Managed Rack PDU: Monitored and Controlled PDU Operation

MPH is a flexible rack PDU solution with remote monitoring and control capabilities as well as environmental input options. It offers multiple power input selections and output configurations in both vertical zero-U and rackmount form factors. Up to four MPH rack PDUs may be interconnected as a Rack PDU Array™, consolidating user IP connections and device monitoring.

MPH Rack PDU Benefits:

Flexibility

- Local displays are easily located to suit a crowded and changing rack environment
- Supports mounting in 19" EIA, 42U rack environments—Offered in vertical, zero U and rackmount form factors
- Provides a compatible monitoring platform for MPH and MPX rack PDUs, offering seamless common operation if deployed together
- User positioned input power cord interface

Higher Availability

- Controls and manages individual receptacles
- Predicts overcurrent conditions before they become critical
- Shuts down non-essential equipment during power outages to maximize availability and back-up power
- Expanded branch overload protection minimizes threat of cascading PDU overload
- Industry leading operating temperature—up to 55˚C / 131˚F to support hot Internal rack environments

Lowest Total Cost Of Ownership

- Provides full featured monitoring and control in a cost effective package
- A Rack PDU Array shares a single IP address for up to four Rack PDUs, making deployment faster and easier
- Energy and power metering provides users the information to maximize the data center power and cooling infrastructure
- Employs energy efficient receptacle control technology

MPH Rack PDU Monitoring And Control Support

Monitored electrical parameters include: voltage, current, real and apparent power, power factor, and accumulated energy or consumption. Capacity based current thresholds provide comprehensive alarm notifications from the Rack PDU and branch.

- **Monitors electrical and environmental parameters** with set threshold and alarm tools
- **Controls access** of receptacle power
- **Controls and manages individual receptacles** and/or groups of loads and devices
- **Allows you to predict failing conditions** before they occur and proactively manage connected equipment for maximum uptime

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With single or three phase power input, the MPH rack PDU provides output as single phase power and is offered in vertical, Zero U and rack mount form factors to support mounting in 19" EIA 42U rack environments.

Rack PDU - OVERVIEW

Applications - Systems: NA = North American; EU = European

Product	Base Support / Selection Criteria	Capacity Range (kW)	Power Monitoring	Key Monitoring Values/ Accuracy	Receptacle Control	Form Factor	Max Operating Temperature
Liebert MPH	- Fixed Infrastructure - Input/output power - Metering - Aggregate & Branch; Environmental - Critical Data Center Environments	NA: 1.9 - 8.6 EU: 4.0 - 22.0	Aggregate, Branch	+/-1%: Amps, Volts +/-2%:kW, kW-h, kVA, Temp.& Hum. (opt.)	Optional	Vertical, Rackmount	55°C / 131°F

MPH - Managed Rack PDU (North American Systems)	
120VAC-Single Phase Input / Output	
Rackmount Form Factor	20 or 30 Amp NEMA input; 9x 5-20R receptacles
Vertical Form Factor	20 or 30 Amp NEMA input; 27x 5-20R receptacles
208-240VAC-Single Phase Input / Output	
Rackmount Form Factor	20 or 30 Amp NEMA input; 9x IEC-C13 receptacles
Vertical Form Factor	20 or 30 Amp NEMA input; 27x IEC-C13 receptacles or 21x IEC-C13 plus 6x IECC19 receptacles
120/208VAC-Three Phase Input / 208 & 120VAC Output	
Vertical Form Factor	30 Amp NEMA input; 27x IEC-C13 or 5-20R; 21x IEC-C13 plus 6x IEC-C19 receptacles; or IEC-NEMA combinations
208VAC- Three Phase Input / 208V Single Phase Output	
Vertical Form Factor	50A or 60A IEC input; 21xIEC-C13 plus 6xIEC-C 19
415VAC-Three Phase Input / 240VAC Output	
Vertical Form Factor	30A NEMA Input; 21xIEC-C13 plus 6xIEC-C19

Status Display (RPC-BDM) provides users optimal local display positioning by allowing mounting on rack doors or wherever best suited for a changing rack environment.

MPH may be remotely monitored through a variety of convenient interfaces.

MPH

MODULARITY
- Modular card-based communications and display
- Add connectivity with basic rack PDU expansion unit

METERING
- Branch and aggregate Rack PDU
- Environmental sensors – Temperature & humidity

REMOTE RECEPTACLE CONTROL
- Receptacle level

LOCAL MONITORING
- User located display

REMOTE MONITORING
- Secure Web/SNMP Interfaces
- Liebert Nform™
- Liebert SiteScan® Web

OVERLOAD PROTECTION
- Breaker per branch as required
- Hydraulic-Magnetic breaker

RACK PDU ARRAY
- Single IP for up to 4 Rack PDU's
- MPX™ and MPH rack PDUs on same private network

FORM FACTOR
- Vertical mount (Zero U)
- Rackmount

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