MPDU Series Product Data Sheet

Overview

The MPDU series is designed to suit the operational requirements of next-generation data centers. MPDU is a Sustainable, Upgradeable and Maintainable (SUM) PDU system which can be re-configured or upgraded hot without affecting the operation of a data center.

MPDU is offered in four different feature levels:

- Monitored PDU (MA)
- Per port Monitored PDU (MB)
- Switched PDU (MC)
- Per Port Monitored & Switched PDU (MD)

Features

Hardware Features

- Hot-swap NMC (Network Management and Control) module and socket modules for easy upgrade and maintenance.
- Available with IEC outlets with self-designed locking system.
- 2.8'' LCD screen displays the current (Amps), Voltage (Volts), Power (kW), energy consumption (kWh) and power factor.
- Independent power supply for the NMC module to ensure accessibility even the breaker tripped when overload occurs.
- NMC module can be rotated 180 degrees allowing the MPDU to be mounted in any orientation.
- Low-profile UL 489 certified hydraulic circuit breakers to prevent current overload in each branch circuit and keep PDU running stable.
- Toll-less mounting to save valuable space in the cabinet.

Remote Access

- Remote access via TCP/IP and build-in 10/100 bit Ethernet port.
- Support network communication protocol including TCP/IP, PPP, UDP, HTTP, TELNET, SSL, SMTP, DHCP, SNTP, and DNS.
- Support SNPM V1, V2 and V3.
- Support Modbus RTU.

Monitor

- Remotely monitor voltage / current / power / power factor / energy consumption at input / circuit level.
- Remotely monitor current / power / energy consumption at outlet level (MB / MD series).
- Remotely monitor circuit breaker on/off status.
- Rack environment monitoring via external connected T/H sensor.

Control and Configure

- Remotely control (switch on / off / reboot) individual outlet.
- User-defined sequential power on / off delay.
- Last known power on.
- User-defined threshold settings of voltage / current / at input / circuit level.
- User-defined threshold settings of voltage / current / at output level (MB / MD series).
- Support up to 5 user accounts with different administrative privileges.
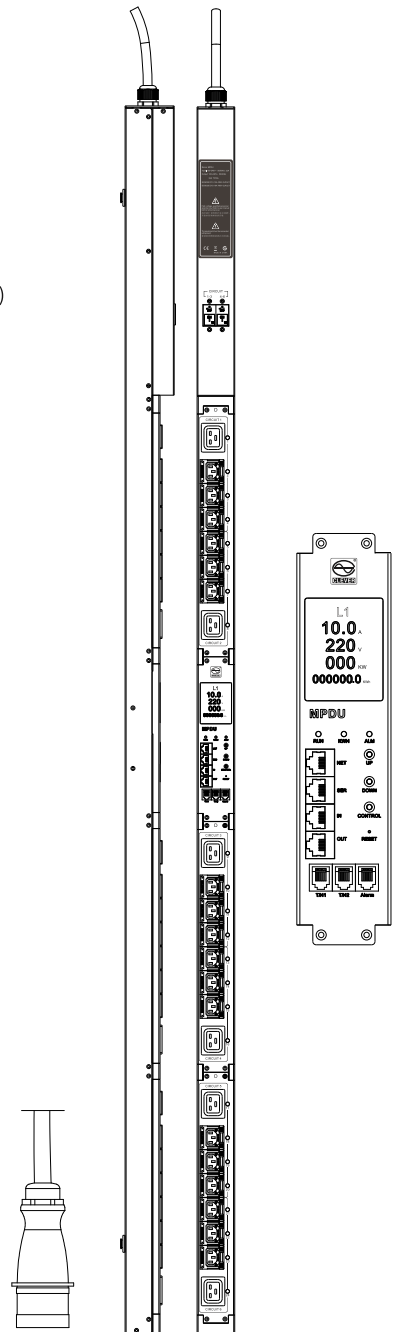
Main function comparison chart

Main fuctions	MA	MB	MC	MD
Monitor voltage / current / power / power factor / energy consumption at input /circuit level	●	●	●	●
Monitor current / power / energy consumption at outlet level		●		●
Control (switch on / off / reboot) individual outlet			●	●
User-defined sequential power on / off delay			●	●
User-defined threshold settings of voltage / current / at output level		●		●
Rack environment monitoring	●	●	●	●

Specifications

Electrical	
Input voltage	100-240 VAC / 200-415VAC ±(1%+3 digit)
Input current	1P: 32 A / 63 A 3P: 3x16 A / 3x32 A
Input frequency	50 / 60 Hz
Input plug	32 A / 63 A 3 pin IEC 60309, 16 A / 32 A 5 pin IEC 60309
Output voltage	100-240 VAC ±(1%+3 digit)
Output current	1P: 32 A / 63 A 3P: 3x16 A / 3x32 A
Maximum output current (circuit breaker bank)	16A / 32 A
Maximum output current (outlet)	IEC C13: 10 A per outlet IEC C19: 16 A per outlet

Overload protection (internal)	1P : 32 A 2x16 A,
	    63 A 2x32 A
	3P : 3x16 A,
	    3x32 A, hydraulic magnetic circuit breakers

Outlet configurations	MA(B/C/D) 1324-2103, MA(B/C/D) 1624-2103, MA(B/C/D) 3124-2103, MA(B/C/D) 3324-2103 : (21)C13, (3)C19 MA(B/C/D) 1324-2004, MA(B/C/D) 1624-2004, MA(B/C/D) 3124-2004, MA(B/C/D) 3324-2004 : (20)C13, (4)C19 MA(B/C/D) 1324-1806, MA(B/C/D) 1624-1806, MA(B/C/D) 3124-1806, MA(B/C/D) 3324-1806 : (18)C13, (6)C19 MA(B) 1342-3606, MA(B) 1642-3606, MA(B) 3142-3606, MA(B) 3342-3606 : (36)C13, (6)C19

Physical	
Dimensions(H x W x D)	1829x56x52 mm
Shipping dimensions(H x W x D)	2355x175x135 mm (63 A) 2265x175x135 mm (32 A / 3x16 A / 3x32 A)
Power cord length	3.0 m (factory standard)

Environmental	
Maximum elevation, above MSL (Operating/Storage)	0 to 3,000 m / 0 to 15,000 m
Temperature (Operating/Storage)	0 to 45°C / -20 to 70°C
Humidity	5 – 95% RH / 5 – 95%, Non-condensing

Compliance	
EMC verification	EN55022, EN61000, FCC Part 15 Class A, ICES
Safety verification	LVD
Environmental verification	ROHS