



# 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

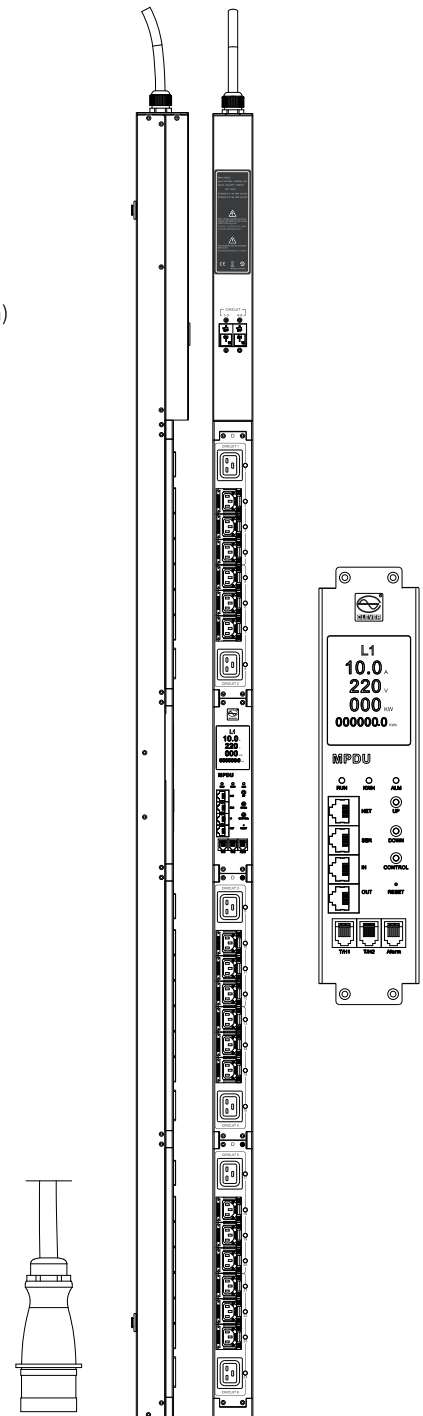
- Remote access via TCP/IP and build-in 10/100 bit Ethernet port.
- Support network communication protocol including TCP/IP, PPP, UDP, HTTP, TELNET, SSL, SMTP, DHCP, SNMP, and DNS.
- Support SNMP V1, V2 and V3.
- Support Modbus RTU.

### 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 $\pm$ (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 $\pm$ (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

## Hot-selling models

Model	Category	Rack Space	Input Voltage	Derated AMP	Input Plug	# of Bank	Outlet	
MA 1324-2103	Monitored	0U	100-240V	32A	IEC 60309 32A	2x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MA 1324-2004		0U	100-240V	32A	IEC 60309 32A	2x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MA 1324-1806		0U	100-240V	32A	IEC 60309 32A	2x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MA 1342-3606		0U	100-240V	32A	IEC 60309 32A	2x16A	36xIEC 60320 C13+6xIEC 60320 C19	
MA 1624-2103		0U	100-240V	63A	IEC 60309 63A	2x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MA 1624-2004		0U	100-240V	63A	IEC 60309 63A	2x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MA 1624-1806		0U	100-240V	63A	IEC 60309 63A	2x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MA 1642-3606		0U	100-240V	63A	IEC 60309 63A	2x32A	36xIEC 60320 C13+6xIEC 60320 C19	
MA 3124-2103		0U	200-415V	3x16A	IEC 60309 16A	3x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MA 3124-2004		0U	200-415V	3x16A	IEC 60309 16A	3x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MA 3124-1806		0U	200-415V	3x16A	IEC 60309 16A	3x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MA 3142-3606		0U	200-415V	3x16A	IEC 60309 16A	3x16A	36xIEC 60320 C13+6xIEC 60320 C19	
MA 3324-2103		0U	200-415V	3x32A	IEC 60309 32A	3x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MA 3324-2004		0U	200-415V	3x32A	IEC 60309 32A	3x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MA 3324-1806		0U	200-415V	3x32A	IEC 60309 32A	3x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MA 3342-3606		0U	200-415V	3x32A	IEC 60309 32A	3x32A	36xIEC 60320 C13+6xIEC 60320 C19	
MB 1324-2103	Per port Monitored	0U	100-240V	32A	IEC 60309 32A	2x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MB 1324-2004		0U	100-240V	32A	IEC 60309 32A	2x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MB 1324-1806		0U	100-240V	32A	IEC 60309 32A	2x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MB 1342-3606		0U	100-240V	32A	IEC 60309 32A	2x16A	36xIEC 60320 C13+6xIEC 60320 C19	
MB 1624-2103		0U	100-240V	63A	IEC 60309 63A	2x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MB 1624-2004		0U	100-240V	63A	IEC 60309 63A	2x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MB 1624-1806		0U	100-240V	63A	IEC 60309 63A	2x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MB 1642-3606		0U	100-240V	63A	IEC 60309 63A	2x32A	36xIEC 60320 C13+6xIEC 60320 C19	
MB 3124-2103		0U	200-415V	3x16A	IEC 60309 16A	3x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MB 3124-2004		0U	200-415V	3x16A	IEC 60309 16A	3x16A	20xIEC 60320 C13+4xIEC 60320 C19	
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MB 3142-3606		0U	200-415V	3x16A	IEC 60309 16A	3x16A	36xIEC 60320 C13+6xIEC 60320 C19	
MB 3324-2103		0U	200-415V	3x32A	IEC 60309 32A	3x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MB 3324-2004		0U	200-415V	3x32A	IEC 60309 32A	3x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MB 3324-1806		0U	200-415V	3x32A	IEC 60309 32A	3x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MB 3342-3606		0U	200-415V	3x32A	IEC 60309 32A	3x32A	36xIEC 60320 C13+6xIEC 60320 C19	
MC 1324-2103	Switched	0U	100-240V	32A	IEC 60309 32A	2x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MC 1324-2004		0U	100-240V	32A	IEC 60309 32A	2x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MC 1324-1806		0U	100-240V	32A	IEC 60309 32A	2x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MC 1624-2103		0U	100-240V	63A	IEC 60309 63A	2x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MC 1624-2004		0U	100-240V	63A	IEC 60309 63A	2x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MC 1624-1806		0U	100-240V	63A	IEC 60309 63A	2x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MC 3124-2103		0U	200-415V	3x16A	IEC 60309 16A	3x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MC 3124-2004		0U	200-415V	3x16A	IEC 60309 16A	3x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MC 3124-1806		0U	200-415V	3x16A	IEC 60309 16A	3x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MC 3324-2103		0U	200-415V	3x32A	IEC 60309 32A	3x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MC 3324-2004		0U	200-415V	3x32A	IEC 60309 32A	3x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MC 3324-1806		0U	200-415V	3x32A	IEC 60309 32A	3x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MD 1324-2103		Per port Monitored & Switched	0U	100-240V	32A	IEC 60309 32A	2x16A	21xIEC 60320 C13+3xIEC 60320 C19
MD 1324-2004			0U	100-240V	32A	IEC 60309 32A	2x16A	20xIEC 60320 C13+4xIEC 60320 C19
MD 1324-1806			0U	100-240V	32A	IEC 60309 32A	2x16A	18xIEC 60320 C13+6xIEC 60320 C19
MD 1624-2103			0U	100-240V	63A	IEC 60309 63A	2x32A	21xIEC 60320 C13+3xIEC 60320 C19
MD 1624-2004	0U		100-240V	63A	IEC 60309 63A	2x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MD 1624-1806	0U		100-240V	63A	IEC 60309 63A	2x32A	18xIEC 60320 C13+6xIEC 60320 C19	
MD 3124-2103	0U		200-415V	3x16A	IEC 60309 16A	3x16A	21xIEC 60320 C13+3xIEC 60320 C19	
MD 3124-2004	0U		200-415V	3x16A	IEC 60309 16A	3x16A	20xIEC 60320 C13+4xIEC 60320 C19	
MD 3124-1806	0U		200-415V	3x16A	IEC 60309 16A	3x16A	18xIEC 60320 C13+6xIEC 60320 C19	
MD 3324-2103	0U		200-415V	3x32A	IEC 60309 32A	3x32A	21xIEC 60320 C13+3xIEC 60320 C19	
MD 3324-2004	0U		200-415V	3x32A	IEC 60309 32A	3x32A	20xIEC 60320 C13+4xIEC 60320 C19	
MD 3324-1806	0U		200-415V	3x32A	IEC 60309 32A	3x32A	18xIEC 60320 C13+6xIEC 60320 C19	

The specification and pictures are subject to change without notice.