VERTIV™ MPH2™ MANAGED RACK PDU

DATASHEET

The Vertiv™ MPH2™ Rack PDU is a power distribution unit for IT racks which allows you to measure electrical values. Depending on the model, individual outputs can also be remote-controlled. Various IT devices and other sensitive electronic loads can be connected to the Vertiv MPH2 Rack PDU.

reddot award 2015 winner

DEUTSCHER RECHENZENTRUMSPREIS 2014
2. PLATZ KATEGORIE 4: RZ-ENERGIETECHNIK

0U Vertiv MPH2 Rack PDU

19" 1U Vertiv MPH2 Rack PDU

19" 2U Vertiv MPH2 Rack PDU

- **Power distribution unit** with the possibility of metering phases, groups. outputs, neutral and residual current.
- **Remotely switched** individual outputs option.
- **Integrated communication card** RPC2 allows up to 4 devices to be connected together, stores the measurement data internally and can be exchanged during ongoing operation.
- **Integrated LCD display** shows the measured values and alarms.
- In addition, the **external display** module RPC BDM-1000 can optionally be connected and flexibly mounted on the cabinet
- **Connection of up to 10 sensors** (temperature, humidity, door contact, leakage sensor and potential-free contacts).
- **Bistable relays**, with which each output can be switched remotely (depending on model), ensure safe operation, such as powerless switching at zero crossing, defined shutdown on power interruption and user-defined behaviour on power recovery (ON, OFF, as before, and/or time-delayed).
- **Cables with interlock** can be connected to the outputs.
- **One status LED** per phase and output indicates the state of the PDU in different colors.

- **Data residual current monitor:** TRMS AC+DC value (AC and DC components), differential current detection per phase and output (depending on model), metering accuracy +/- 1 mA, adjustable threshold value from 5 mA to 100 mA, remote, visual and audible alarms.
- **Remote management:** Dual Ethernet port (1000/100/10Mb & 100/10Mb), RS-232, USB port, Onboard Web Interface HTTP(s), IPv4/6, DHCP, NTP, Syslog, SSH, SMS, SMTP, IMAP, Telnet, SMBus (I2C), USB 2.0, Dallas 1-wire, CLI, SNMP v1,2,3, integrates with Avocent ACS, UMG & MPU, DSView, Nform & Trellis and Nagios or other management software programs.
- **Authentication:** Local, Remote: Active Directory, LDAP, TACACS, Radius, Kerberos. Encryption: TLS v1.2, trusted CA signed and self-signed certificates.
- **Material / Surface / Color:** Housing closed, aluminum profile, upper part powder-coated in RAL 7021 fine structure; plastic parts Vampamid 6 0024 V0 (UL94), recyclable, colored fine structure; RAL 9005.
- **Measurement parameters/resolution:** current (0.01A), voltage (0.1V), active power (0.1W), apparent power (0.1VA), energy (0.1kWh), power factor (0.01), crest factor (0.01) and frequency (0.1Hz) such as powerless switching at zero crossing, defined shutdown on power interruption and user-defined behaviour on power recovery (ON, OFF, as before, and/or time-delayed).
- **Accuracy +-1%** (V,A) IEC and ANSI standard (IEC 62053-21, EN50470-3, ANSI C12.16)
- **Power dissipation** 3-7 W

Vertiv™ MPH2™ Rack PDU Specifications

MODEL/FUNCTIONS	MPHR	MPHM	MPHC	MPHB
Input/group measurement	•	•	•	•
Output measurement	•	•		
Output switching	•		•	

ENVIRONMENTAL CONDITIONS

Ambient temperature	During operation: 5 °C – 60 °C Storage temperature: -20 °C – 85 °C
Relative humidity	10 – 90 % non-condensing
Operating altitude	Max. 2000 m

STANDARDS

The Vertiv MPH2 Rack PDU is designed in accordance with the relevant sections of the following documents. If the information in the documents and this specification does not correspond, the information in this specification shall apply.

Europe	CB certification:	IEC 60950-1:2005 (2nd ed.) + A1:2009
	BG certification:	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC2011
	EMC:	EN 55022:2010 + AC:2011 EN 55024:2010 EN 61000-4-2 ..... EN 61000-4-11
	CE-compliance:	Directive 2004/108/EC Electromagnetic Compatibility (EMC) Directive 2006/95/EC Low voltage (LVD) Directive 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)
North America	UL certification:	UL 60950-1, Second Edition, rev. December 19, 2011 CAN/CSA C22.2 No. 60950-1-2007 (R2012)
	EMC:	FCC: CFR47

PHYSICAL DIMENSIONS

	Vertical Unit	Horizontal units
Width x Depth	56 mm x 50 mm	82.6 mm (440 mm) x 250 mm
Length	916 mm / 1004 mm / 1737 mm/ 1827 mm	44 mm / 88 mm

Items supplied

- Vertiv MPH2 Rack PDU
- Standard fixing bracket
- Safety notes
- Quickstart guide