



SMART MONITOR PDU

DESCRIPTION

The barpa Smart Monitor PDU is engineered to deliver precision power distribution with real-time metering at both outlet and aggregate levels. Designed for integration in high-density environments such as data centers, enterprise IT racks, and telecom infrastructures, it enables granular visibility of energy usage, supporting capacity planning, asset management, and energy optimisation enabled all by integrated software. Remote switching functionality is not included in this model.



APPLICABLE STANDARDS

- EN IEC 62368-1 (Safety) • EN IEC 60320-1 • EN IEC 60884-1 • IEC 61000 • BS 1363
- UL 498 / NEMA WD 6 • IEC 61000-6-1/3 (EMC) • EMC Directive (2014/30/EU)
- Low Voltage Directive (2014/35/EU) • RoHS Directive (2011/65/EU)



KEY FEATURES

High-resolution power metering per outlet and per PDU (voltage, current, power, energy, power factor)

Scalable outlet-level metering

Embedded power quality parameters monitoring with integrated local display

Multi-protocol support: HTTP/HTTPS, SNMPv3, Modbus TCP/IP

Integrated surge protection and basic line filtering

Embedded web-based management software for monitoring and outlet control

Compatibility with barpa environmental sensors

MECHANICAL & PHYSICAL SPECIFICATIONS

Material	1,2mm SGCC (Steel Galvanized Cold Commercial)	
Color	Black powder coated	
Internal Wiring	16 A	3G x 1,5 mm ²
	32 A	3G x 6 mm ²
Cable Length	3 meters (customisable on request)	
Number of Sockets	8, 16, 24	
Control System	Surge Protection	
Sensor Ports Available	6+1	
Sensor Interface Type	RJ11	

SMART MONITOR PDU

ELECTRICAL SPECIFICATIONS

Input Voltage	220–250 V AC	
Input Frequency	50/60 Hz	
Nominal Current	16 A or 32 A (depending on configuration)	
Maximum Power	16A	4000 W
	32A	8000 W
Phase Configuration	Single-phase	

CONFIGURATION TYPES

Socket Types	Schuko	
	UK	
	US (B)	
	IEC C13	
	IEC C19	
Plug Types	Schuko	
	IEC 309	
	US (B)	

POWER MONITORING & METERING

Monitoring Scope	Per outlet and per PDU (total consumption)
Voltage Measurement (V)	Yes (per PDU and per outlet)
Current Measurement (A)	Yes (per PDU and per outlet)
Power Measurement (kW)	Yes (per PDU and per outlet)
Energy Measurement (kWh)	Yes (per PDU and per outlet)
Temperature Measurement (°C)	Yes
Humidity Measurement (%RH)	Yes
Power Factor Measurement (PF)	Yes
Measurement Resolution	3 decimal digits
Measurement Accuracy	±1 %
Data Refresh Interval	0,4 s

COMMUNICATON & MANAGEMENT

Network Interface	RJ45
Supported Protocols	SNMP / HTTP / HTTPS / Modbus TCP / SSH / Telnet / SMTP
SNMP Version Supported	v1 / v2c / v3
IP Configuration	DHCP or Static
Web Interface	Yes
Firmware Upgrade Method	Web, USB or TFTP



SMART MONITOR PDU

ALARM & EVENT FEATURES

Configurable Thresholds	Yes (per outlet and per PDU)
Overcurrent Alarm	Yes (per outlet)
Overvoltage / Undervoltage Alarm	Yes
Power Failure Detection	Yes
Alarm Notification Methods	SNMP Trap / Web
Event Logging	Yes

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range (°C)	0 to +60
Storage Temperature Range (°C)	0 to +60
Operating Humidity (%RH)	5 - 95
Operating Altitude (m)	0 - 3000

ORDER INFORMATION

Code	Reference	Type	Number of Sockets	Socket Type	Plug Type	Rated Current (A)	Unit Dimension (mm)	Unit Weight (kg)
82431108433	SPDU-H-M-08-US(B)-US(B)-15A	Horizontal	8	US (B)	US (B)	15	486x200x45	2,8
82431108111	SPDU-H-M-08-SCH-SCH-16A			Schuko	Schuko	16	486x200x45	2,8
82432116522	SPDU-V-M-16-UK-IEC309-32A	Vertical	16	UK	IEC 309	32	1500x56x85	7,3
82432124222	SPDU-V-M-24-SCH-IEC309-32A		24	Schuko	IEC 309	32	1850x56x85	8,5
82432124622	SPDU-V-M-24-C13x21-C19x3-IEC309-32A		24	21xC13 + 3xC19	IEC 309	32	1560x56x85	7,5

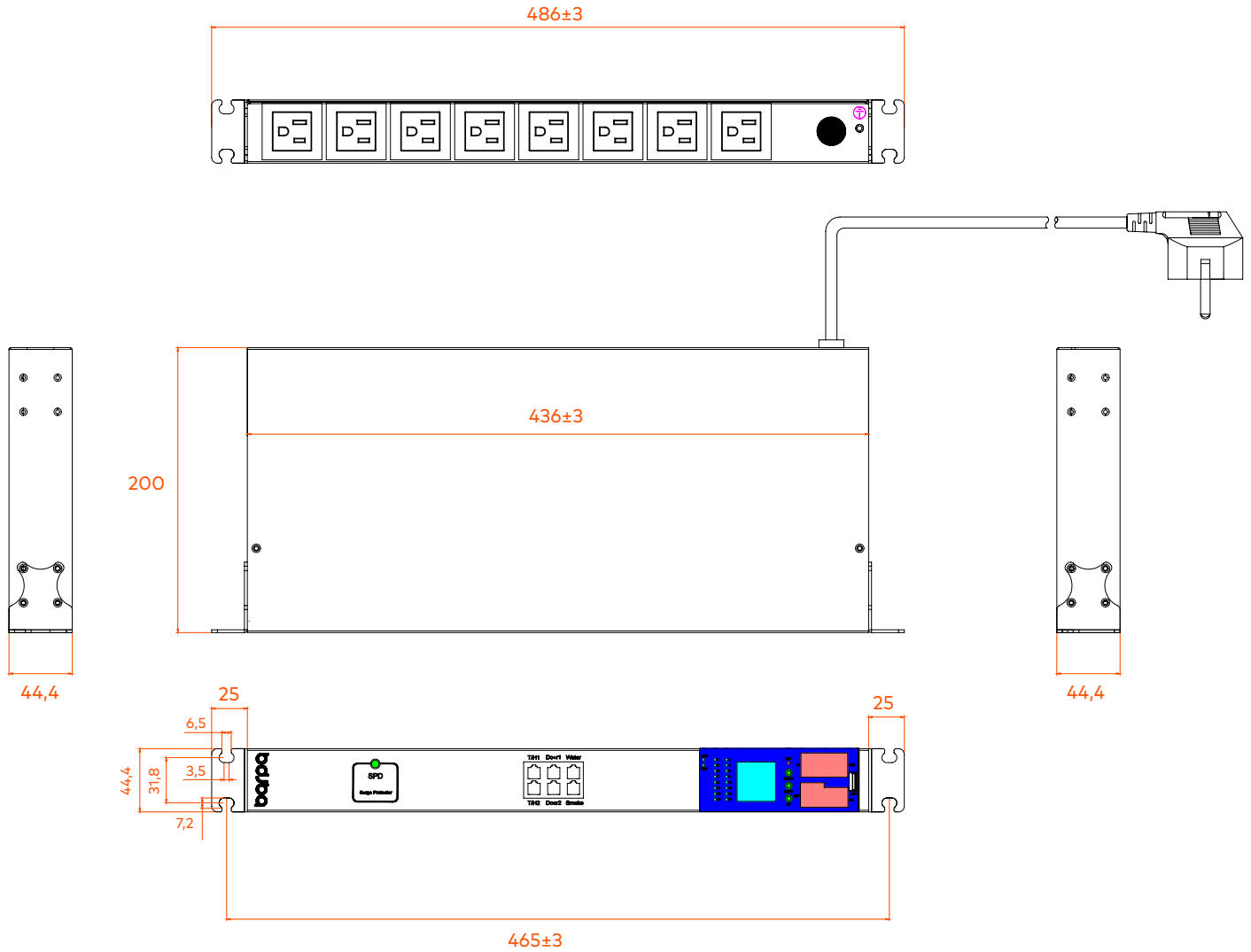
For assistance customizing your solution, please contact our team at info@barpa.eu

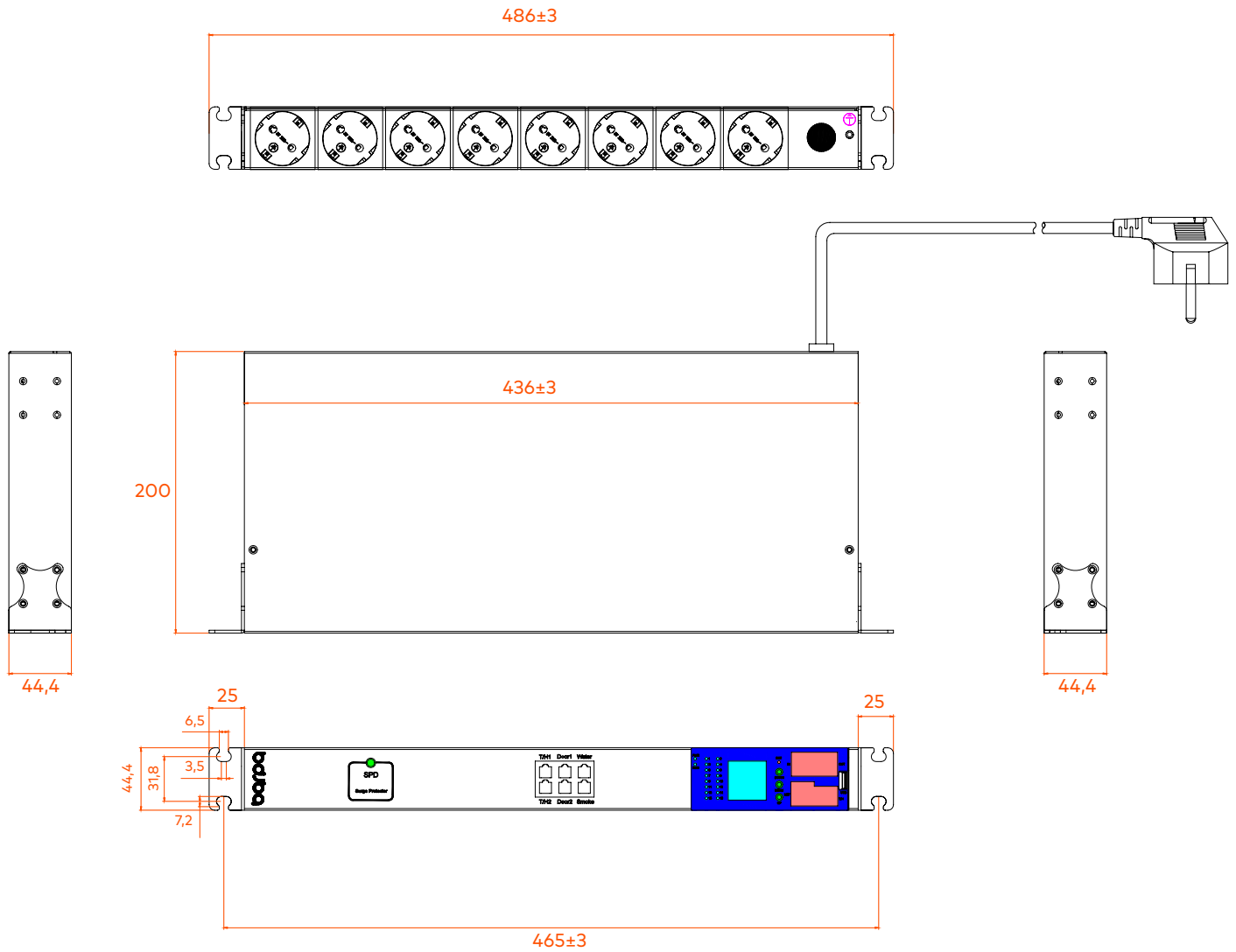
LOGISTICS INFORMATION

Code	Inner Box		Outer Box	
	Quantity (un)	Dimensions (mm)	Quantity (un)	Dimensions (mm)
82431108433	1	545x250x90	4	565x525x210
82431108111		545x250x90		565x525x210
82432116522		1760x175x100		1780x375x225
82432124222		2110x175x100		2130x375x225
82432124622		1820x175x100		1840x375x225

TECHNICAL DRAWING (mm)

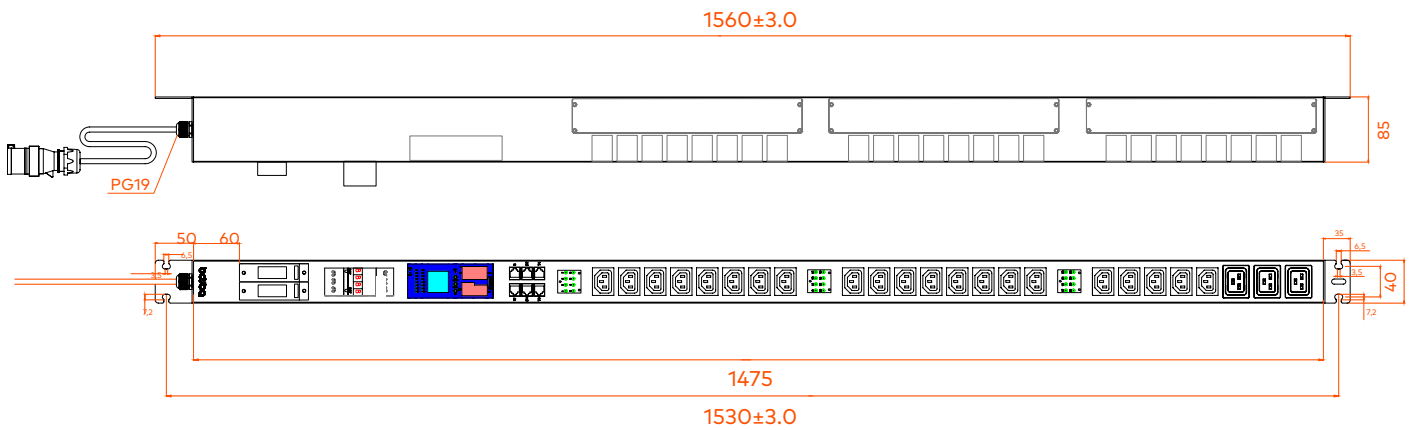
SPDU-H-M-08-US(B)-US(B)-15A





SMART MONITOR PDU

SPDU-V-M-24-C13x21-C19x3-IEC309-32A



PACKAGING

This images are merely illustratives. We want you to see the importance we attach to the packaging.
We always work with products and materials that are easy to use.

