



SMART CONTROL PDU

DESCRIPTION

barpa Control Smart PDU is engineered to provide reliable electrical power distribution with remote outlet-level control and real-time monitoring of energy consumption, both per outlet and at total circuit level. It enables remote switching of individual outlets, allowing effective power management, load control and reboot operations. Ideal for data centers, IT racks, and industrial environments where availability, control and energy visibility are critical.



APPLICABLE STANDARDS

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



KEY FEATURES

High-resolution power metering and control 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	16A	3G x 1,5 mm ²
	32A	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	

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More information: info@barpa.eu or in www.barpa.eu

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approved by: Ana Barbosa

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)
Control Scope	Per outlet
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)
Power Factor Measurement (PF)	Yes
Temperature Measurement (°C)	Yes
Humidity Measurement (%RH)	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

ALARM & EVENT FEATURES

Configurable Thresholds	Yes (per outlet and per PDU)
Overcurrent Alarm	Yes (per outlet)
Automatic Outlet Power-off on Overcurrent	Yes (software-based protection)
Overvoltage / Undervoltage Alarm	Yes
Power Failure Detection	Yes
Timer-based Switching Events	Yes (scheduled on/off, delayed switching)
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)
82431208433	SPDU-H-C-08-US(B)-US(B)-15A	Horizontal	8	US (B)	US (B)	15	486x200x45	2,8
82431208111	SPDU-H-C-08-SCH-SCH-16A			Schuko	Schuko	16	486x200x45	2,8
82432216122	SPDU-V-C-16-SCH-IEC309-32A	Vertical	16	Schuko	IEC 309	32	1500x56x85	7,3
82432224222	SPDU-V-C-24-C13-IEC309-32A		24	C13	IEC 309	32	1560x56x85	7,5
82432224622	SPDU-V-C-24-C13x21-C19x3-IEC309-32A		24	21xC13 + 3xC19	IEC 309	32	1560x56x85	7,5

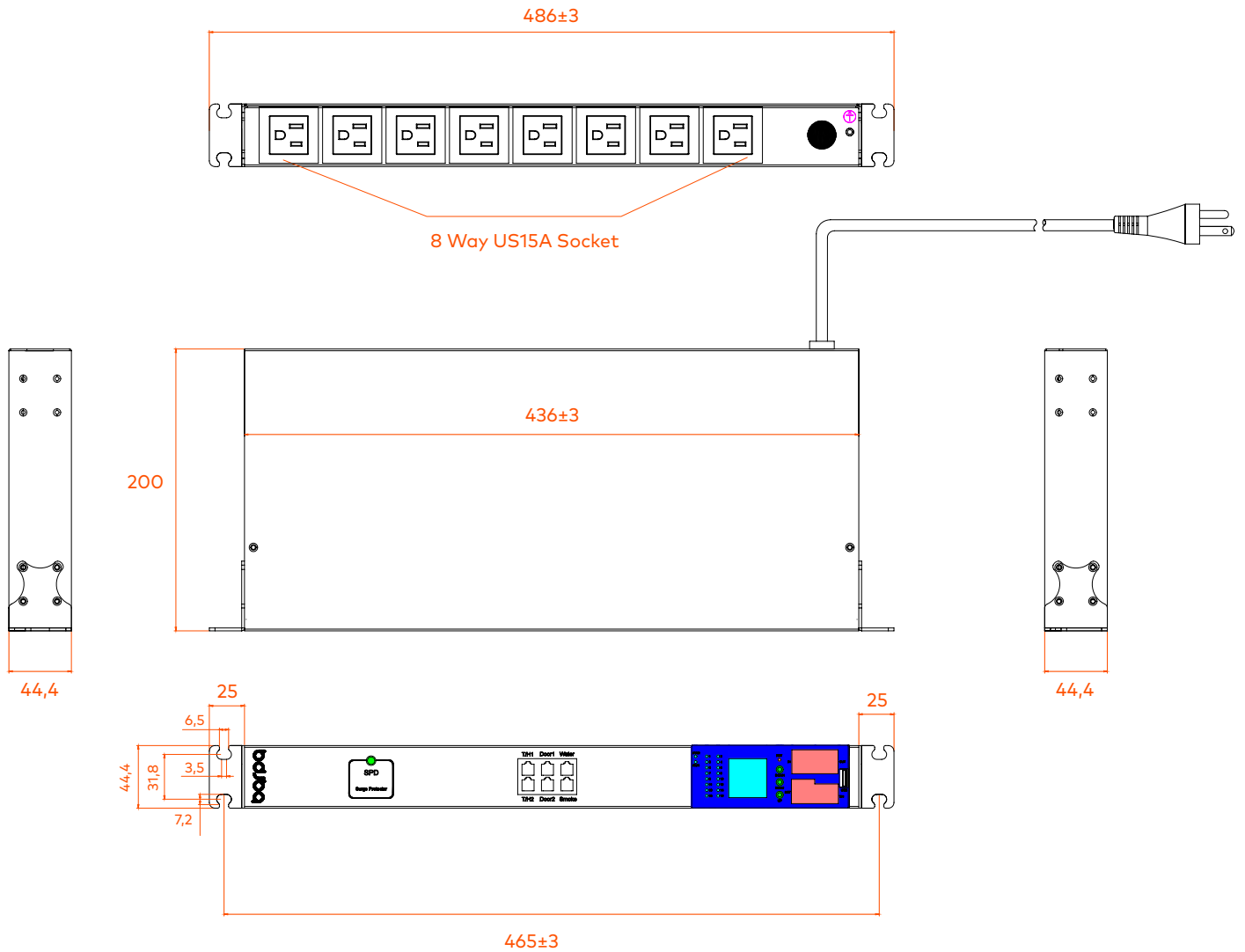
For assistance customizing your solution, please contact our team at: info@barpa.eu

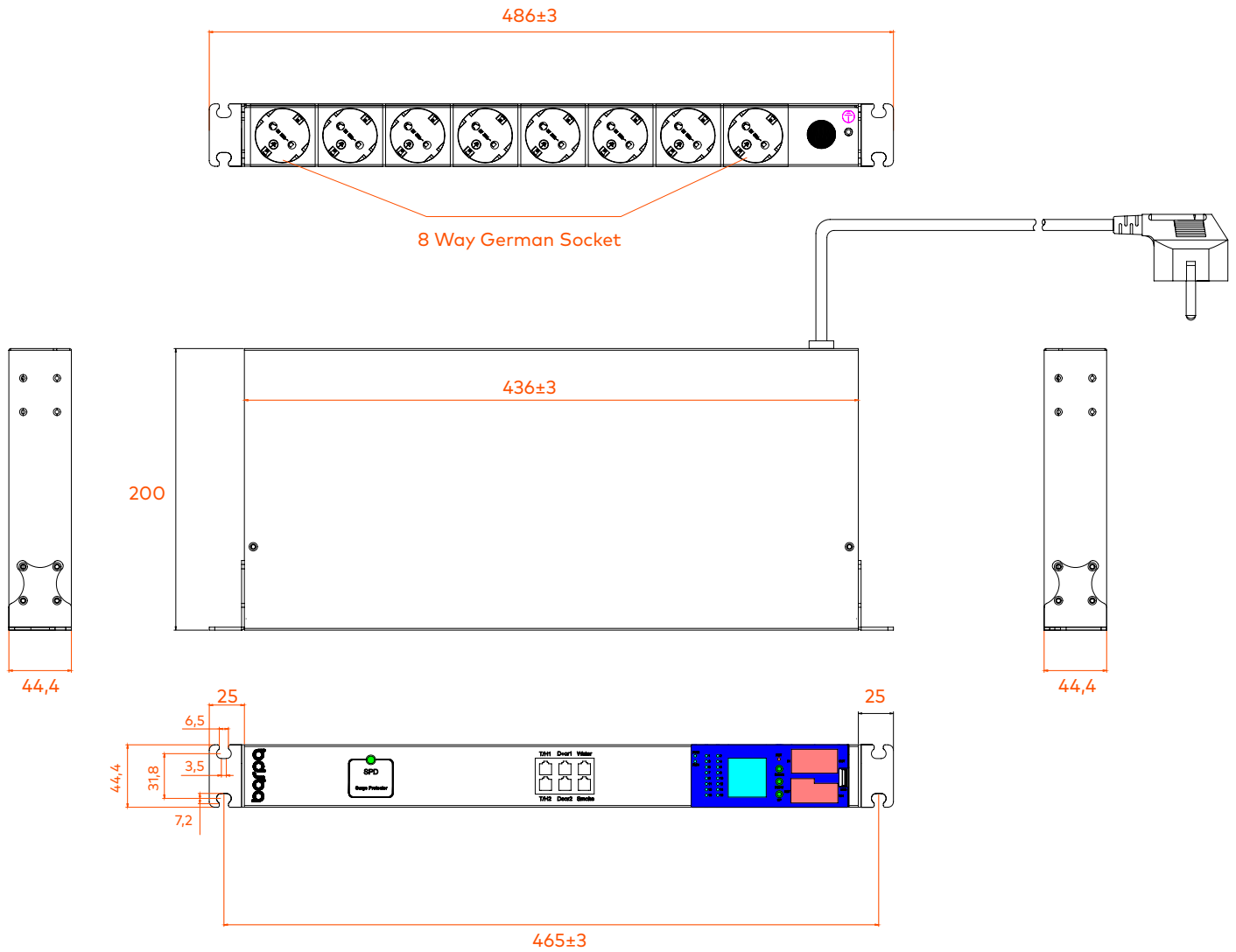
LOGISTICS INFORMATION

Code	Inner Box		Outer Box	
	Quantity (un)	Dimensions (mm)	Quantity (un)	Dimensions (mm)
82431208433	1	545x250x90	4	565x525x210
82431208111		545x250x90		565x525x210
82432216122		1760x175x100		1780x375x225
82432224222		1820x175x100		1840x375x225
82432224622		1820x175x100		1840x375x225

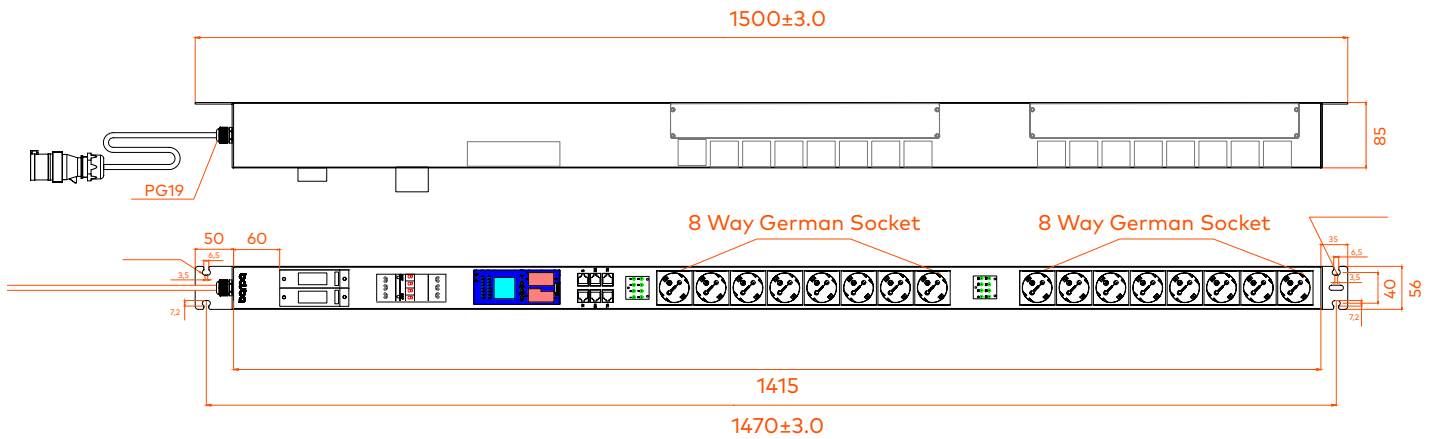
TECHNICAL DRAWING (mm)

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

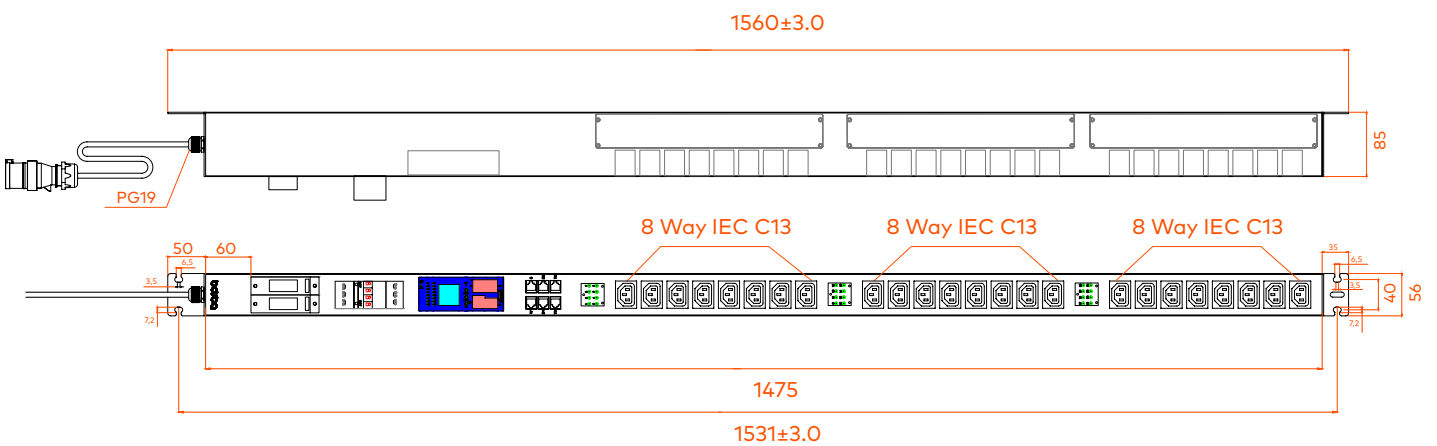




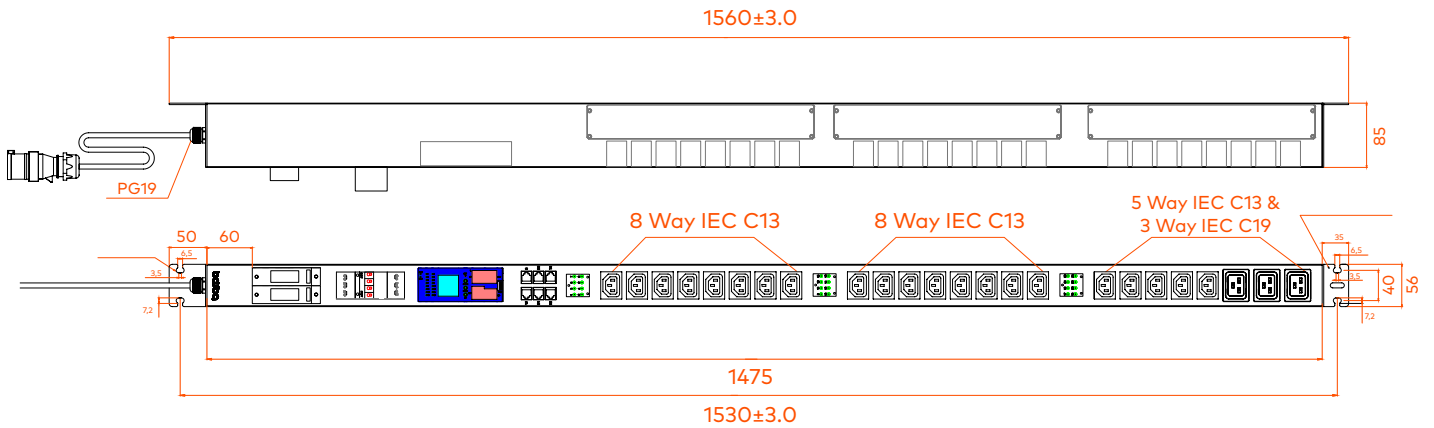
SPDU-V-C-16-SCH-IEC309-32A



SPDU-V-C-24-C13-IEC309-32A



SPDU-V-C-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.

