

# Rittal – The System.

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## DK 7955.236

## PDU international, metered version

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7955.236 - PDU international, metered version

Compact power distributor with energy measurement per phase and/or infeed. Rapid overview of the power requirements of a complete IT rack. Distribution output up to 22 kW

## Features

|  |  |
|--|--|
| Model No.                              | DK 7955.236  |
| Design                                 | PDU, metered   |
| Product description                    | Energy measurement per phase, i.e. output requirement of an entire IT rack. Thanks to the compact PDU, any IT rack is easily equipped with a professional power distribution system. The compact design allows simple assembly – with the TS IT rack, assembly is even tool-free. The OLED display shows the energy consumption. An integral Web server offers a direct network connection with extensive user administration functions. Redundant power is supplied from all phases and additionally via an existing Power-over-Ethernet network. The PDU offers extensive monitoring functions. Measurement accuracy of 1% guarantees a high level of reliability. |
| Material                               | Aluminium section, black anodised  |
| Dimensions                             | Width: 44 mm<br>Depth: 62 mm<br>Length: 2,050 mm   |
| No. of sockets and type                | 48 x C13   |
| Sockets                                | 48 x IEC 320 socket C13  |
| Rated current (max.)                   | 32 A   |
| Infeeds                                | Qty.: 1<br>Phases per infeed: 3~   |
| Length of connection cable             | 3 m  |
| Type of electrical connection          | CEE  |
| Number RJ45 ports for sensor units max | 6  |

# Features

|                                   |   |
|-----------------------------------|---|
| Directives                        | EMC Directive 2014/30/EU<br>Low Voltage Directive 2014/35/EU  |
| Standards                         | EN 60950-1  |
| Operating temperature range       | 0 °C...45 °C  |
| Ambient humidity (non-condensing) | 10...95 %   |
| Storage temperature range         | -25 °C...70 °C  |
| To fit                            | Enclosure type: TS IT: ≥ 2,200 mm   |
| Packs of                          | 1 pc(s).  |
| Net weight                        | 7.1 kg  |
| Gross weight                      | 8 kg  |
| Customs tariff number             | 85366990  |
| ETIM 9                            | EC002762  |
| ECLASS 8.0                        | 27142604  |
| Product description               | DK PDU international, metered version, Energy measurement per phase, WLD: 44x2050x62 mm, 48xC13. black, CEE, 3~, 32 A |

# Tender text

Rittal PDU metered, Model No.: DK 7955.236

Compact power distribution system for use in IT servers and network enclosures. Vertical mounting using the universal support (supplied) for common IT racks. Suitable for tool-less, fast assembly in Rittal TS IT racks, by means of special "Plug&Play" fastening system (also supplied). Sturdy aluminium enclosure with fixed output slots (EN60320/C13 or EN60320/C19, depending on the type). The output slots can be protected with a latch to prevent inadvertent cable withdrawal. Unused slots can be closed with covers. This prevents the inadvertent overloading of individual phases and circuits. The circuits/phases are marked in colour with multiphase PDU versions. Depending on the version, a fixed connection cable with a CEE connector is installed, so that the PDU is immediately ready for use.

The "PDU metered" has extensive management features for the power and output monitoring of each phase. The basic configuration can be set via the integrated OLED colour display, and the electrical consumption data can be accessed rapidly. Remote access to the PDU's Web server is possible via the network interface. The consumption parameters can be transmitted to a DCIM software application via SNMP. Up to four sensors (temperature/humidity/access) can be connected to the CAN-interface to monitor the environmental parameters.

The warranty period is 24 months during normal operation as intended.

Technical specifications of the "PDU metered"

Input voltage range (L-N): 90 V - 250(400) V AC, 50-60 Hz

Input current: 32 A

No. of phases: 3

Marking of the phases, (3-phase PDUs only: L1, L2, L3): Brown, black, grey

Number of slots, type EN60320/C13 (total): 48

Number of slots, type EN60320/C13 (per phase/fuse): 16/8

Number of slots, type EN60320/C19 (total): 0

Number of slots, type EN60320/C19 (per phase/fuse): 0

Number of circuit breakers: 6

Electromagnetic circuit breakers: 16 A, type C

Individually switchable slots: NO

PDU input connector: EN60309 / CEE

Length of the connection cable: 3 m

Connection cable type: H05-VV

Number of wires: 5

Cable cross section: 4 mm<sup>2</sup>

PDU enclosure width: 44 mm (1 U)

PDU enclosure depth: 62 mm

PDU enclosure height: 2050 mm

PDU material: Aluminium, anodized, RAL 9005 (black)

PDU mounting adapter: Plastic, black

Measurement functions: Measurement of each phase

Recorded values (per phase): Voltage (V), current (A) and frequency (Hz)

Active power (kW), active energy (kWh), apparent power (kVA)

Power factor

Neutral current measurement

Fuse monitoring

(with 32 A/63 A versions)

Voltage, measurement range 90 to 250 V

Voltage resolution 0.1 V

Voltage accuracy 2%

Current measurement range 0 to 32 A

Current resolution 0.1 A

Current accuracy 2%

Frequency accuracy 2%

Active Power (kW) accuracy 2%

Apparent power (kVA) accuracy 2%

Active energy (kWh) accuracy 1%

Power factor accuracy 2%

Freely adjustable thresholds for warning/alarm: Yes

Operating hours counter: Yes

Display: OLED, RGB, 128x128 pixels

Network interface: RJ45, integrated Web server

Supported protocols: HTTP, HTTPS, SSL, SSH, NTP, and Telnet

TCP/IP v4 and v6, DHCP, DNS, NTP, and Syslog

SNMP v1, v2c and v3, XML

FTP/SFTP (update / file transfer)

E-mail dispatch (SMTP)

User management, including rights management: Yes  
LDAP(S) / Radius / Active Directory connection: Yes  
USB port for firmware update and data logging function: Yes  
CAN-bus interface: RJ45, to connect sensors  
CAN sensor types: Temperature, temperature/humidity (combined),  
Infrared access sensor, vandalism sensor  
Maximum number of sensors per PDU: 4  
Plug and Play drivers in the Rittal RiZone DCIM software: Yes

Conformity: CE

Standards:

Safety: EN 60950-1

EMC:

EN 55022 / B

EN 61000-4-2

EN 61000-4-3

EN 61000-6-2

EN 61000-6-3

Safety guideline: 2006/95/EC

EMC Directive: 2004/108/EC

MTBF (at 40°C) 80,000 hours

Protection category: IP 20 (EN 60529)

Protection category: Class 3

Level of contamination: 2

Overvoltage class: II

Environmental properties: RoHS

Storage temperature -25°C to +70°C

Ambient temperatures 0°C to +45°C

Relative humidity 10 to 95% RH, non-condensing

Connector locking C13 and C19: 1x (further optional DK 7955.020)

C13 covers in range of goods supplied: 8x (further optional DK 7955.010)

C19 covers in range of goods supplied: 2x (further optional DK 7955.015)

Warranty: 24 months

Type: Rittal PDU metered, Model No.: DK 7955.236