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**DK 7955.434**

**PDU international, managed version**

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7955.434 - PDU international, managed version

High-end IT rack power distributor: Intelligent PDU with CAN bus interface for use with CMC III or PDU managed, switch function and energy data logging per output. Input with CEE connector (16 A/32 A) with C13 and C19 outputs.



## Features

Model No.	DK 7955.434
Design	PDU international, managed version
Product description	High-end power distribution in the IT rack with energy measurement and monitoring functions for each individual output slot Thanks to the compact PDU, any IT rack is easily equipped with a professional power distribution system The TS IT rack even supports tool-free assembly. The compact design allows simple assembly. The installed bistable relays and OLED display keep energy consumption in the PDU low. 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 management and monitoring functions. Measurement accuracy of 1% guarantees a high level of reliability. The PDU has a CAN bus interface for connecting slave PDUs. Ambient monitoring is also possible with up to 4 CMC III sensors (temperature, humidity, access, vandalism).
Material	Aluminium section, black anodised
Dimensions	Width: 44 mm Depth: 85 mm Length: 2,065 mm
No. of sockets and type	36 x C13 / 6 x C19

# Features

Sockets	36 x IEC 320 socket C13 6 x IEC 320 socket C19
Rated current (max.)	32 A
Infeeds	Qty.: 1 Phases per infeed: 3~
Length of connection cable	3 m
Type of electrical connection	CEE
Number RJ45 ports for sensor units max	6
Directives	EMC Directive 2014/30/EU 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	9,27 kg
Gross weight	9,58 kg
Customs tariff number	85366990
ECLASS 8.0	27142604
Product description	DK PDU international, managed version, Measurement-/monitoring functions for each slot, switchable, WLD: 44x2065x85 mm, 36xC13, 6xC19, black, CEE, 3~, 32 A

# Tender text

Rittal PDU managed, Model No.: DK 7955.434

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 managed" has extensive management features for power and output monitoring at each slot. Each slot can be activated via bistable relays. 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 managed"

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): 36

Number of slots, type EN60320/C13 (per phase/fuse): 12 (6+6)

Number of slots, type EN60320/C19 (total): 6

Number of slots, type EN60320/C19 (per phase/fuse): 2 (1+1)

Number of circuit breakers: 6

Electromagnetic circuit breakers: 16 A, type C

Individually switchable slots: YES  
(bistable relays, low internal consumption)

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: 85 mm  
PDU enclosure height: 2065 mm

PDU material: Aluminium, anodized, RAL 9005 (black)  
PDU mounting adapter: Plastic, black  
Measurement functions: Measurement per output or slot  
Recorded values: 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  
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 managed, Model No.: DK 7955.434