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## DK 7955.310

## PDU international, switched version

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7955.310 - PDU international, switched version

Individually switchable output slots are the key performance feature of the PDU, which of course also offers a measuring function per phase/input. Current consumption data is shown on the OLED display.

## Features

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.                     | DK 7955.310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Design                        | PDU, switched                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product description           | Measurement function per phase and individually switchable output slots. Thanks to the compact PDU, any IT rack may be easily equipped with a professional power distribution system. With the TS IT rack, assembly is even tool-free. The compact design allows simple assembly. The installed bistable relays and OLED display keep energy consumption low. An integrated web server can be used as a direct network connection with extensive user administration. Redundant power is supplied from all phases and via an existing Power over Ethernet network. The PDU offers extensive management and monitoring functions. A measuring accuracy of up to 1% guarantees reliability. |
| Material                      | Aluminium section, black anodised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Supply includes               | incl. connection cable H05-VV (3 m) with fitted input connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dimensions                    | Width: 44 mm<br>Depth: 85 mm<br>Length: 1,360 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| No. of sockets and type       | 24 x C13 / 4 x C19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sockets                       | 24 x IEC 320 socket C13<br>4 x IEC 320 socket C19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated current (max.)          | 16 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Infeeds                       | Qty.: 1<br>Phases per infeed: 1~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Length of connection cable    | 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Type of electrical connection | CEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# Features

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| Directives                        | EMC Directive 2014/30/EU<br>Low Voltage Directive 2014/35/EU |
| Standards                         | EN 60950-1<br>IEC 61 000-4<br>IEC 61 000-6<br>EN 55 022      |
| 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: ≥ 1,800 mm                            |
| Packs of                          | 1 pc(s).                                                     |
| Net weight                        | 3.2                                                          |
| Gross weight                      | 5                                                            |
| Customs tariff number             | 85366990                                                     |
| EAN                               | 4028177685192                                                |
| ECLASS 8.0                        | 27142604                                                     |

# Tender text

Rittal PDU switched, Model No.: DK 7955.310

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 switched" has extensive management features for the power and output monitoring of each phase. 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 switched"

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

Input current: 16 A

No. of phases: 1

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

Number of slots, type EN60320/C13 (total): 24

Number of slots, type EN60320/C13 (per phase/fuse): 24

Number of slots, type EN60320/C19 (total): 4

Number of slots, type EN60320/C19 (per phase/fuse): 4

Number of circuit breakers: 0

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: 3

Cable cross section: 2.5 mm<sup>2</sup>

PDU enclosure width: 44 mm (1 U)

PDU enclosure depth: 85 mm

PDU enclosure height: 1360 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

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 - 16 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 switched, Model No.: DK 7955.310