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# DK 7979.402 PDU managed

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# DK 7979.402 - PDU managed

High-end IT rack power distribution with energy measurement and monitoring functions for each individual output slot. Input with CEE connector (16 A/32 A) with C13 and C19 outputs.







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#### **Features**

| Model No.           | DK 7979.402   |
|---------------------|---|
| Design              | 482.6 mm (19") version  |
| Product description | High-end power distribution in a compact design for IT network and server racks. Depending on the design, they come with an extensive range of management functions for energy measurement and monitoring.  |
| Benefits            | For vertical mounting, it may be attached in the zero-U space of the Rittal VX IT or TS IT rack with no need for tools Colour coding of phases and fuse circuits (L1=pink, L2=black, L3=white) Tool-free divider kit for VX IT PDU self-supplied, no external power supply required Measurement accuracy ± 1% (kWh) to EN 62 053-21 Programmable startup behaviour following voltage recovery (on/off/last status) Programmable switching behaviour (time/programmable logic) Integral real-time clock with battery buffering (max. 10 years, battery replaceable) Integral electromagnetic buzzer for acoustic alarms Adjustable limit values (warning/alarm) for current, voltage, output, individual settings for each output slot |

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## **Features**

| Technical specifications | Display/controller unit in the PDU enclosure rotatable through 180°   |
|--------------------------|---|
|                          | and replaceable   |
|                          | Integral, fully-redundant power pack, power supply from all phases    |
|                          | Error-tolerant PDU power supply redundant across all phases           |
|                          | Voltage V, current A, frequency Hz                                    |
|                          | Active power, active energy, apparent power, apparent energy          |
|                          | Power factor (cosPhi) and phase angle                                 |
|                          | Zero conductor current measurement/load imbalance detection           |
|                          | Fuse monitoring for PDUs with integral fuse                           |
|                          | Bright TFT display, 128 x 128 pixels (RGB) with back-lighting and     |
|                          | energy-saving mode to display output data and basic PDU               |
|                          | configuration   |
|                          | Position sensors for display rotation and correct PDU representation  |
|                          | on the website  |
|                          | Multi-colour LEDs (green/amber/red) to indicate switching states      |
|                          | and limits per individual output slot                                 |
|                          | Power LED to indicate voltage   |
|                          | Power-saving design, minimal intrinsic power consumption              |
| Material                 | Aluminium section, black anodised                                     |
|                          | Slots: Plastic  |
| Supply includes          | Assembly parts  |
|                          | No connection cable, to be provided by the customer.                  |
| Options                  | CMC III CAN bus sensors may be connected for ambient                  |
|                          | monitoring, max. 16 sensors   |
| Measurement functions,   | Emergency power supply to PDU web server via PoE, sequential          |
| description              | disconnection of the outputs  |
|                          | Switching function per output slot                                    |
|                          | Avoids overload peaks: Sequential activation of the outputs           |
|                          | following voltage recovery  |
|                          | Relay states are saved even in the event of a power failure           |
|                          | Bistable relays: Low current consumption and high switching           |
|                          | capacity, also suitable for higher starting currents up to max. 300 A |
|                          | Grouping: Joint switching of multiple outputs                         |
|                          | Measurement per phase or infeed                                       |
|                          | Plus measurement per output slot                                      |
|                          | Powerful CPU (ARM Cortex A8)  |
|                          | Digital input (floating contact)                                      |
|                          | Additional alarm output/relay output (changeover contact)             |

## **Features**

| Dimensions                    | Height: 44 mm Depth: 144 mm   |
|-------------------------------|---|
|                               | Length: 450 mm  |
| No. of sockets and type       | 6 x C13   |
| Sockets                       | 6 x C 13  |
| Rated operating voltage       | 230 V (AC)  |
| Rated current (max.)          | 16 A  |
| Power consumption             | 3,7 kW  |
| Infeeds                       | Qty.: 1<br>Phases per infeed: 1~  |
| Type of electrical connection | IEC C20   |
| Interfaces                    | Fully redundant Ethernet interface 10/100/1000 Mbit/s (2x RJ45, 1x with PoE)  USB 2.0 port (USB-A) for mass configuration, firmware updates & data logging  CAN bus interface (RJ 45) for a maximum of 16 ambient sensors  Serial interface RS232 (RJ12) for LTE unit, scripting, CLI  Use of own certificates/TLS 1.2  E-mail forwarding in case of alarm (SMTP)  User administration including rights management  LDAP(S)/Radius/Active Directory connection  Syslog server connection (max. 2 servers) |
| Directives                    | EMC Directive 2014/30/EU<br>Low Voltage Directive 2014/35/EU  |
| Standards                     | EN 62368-1<br>EN 61000-3<br>EN 61000-4<br>EN 61000-6<br>EN 62053-21   |
| Protocols                     | Web server (HTTP, HTTPS, SSL) SSH, Telnet, NTP TCP/IP v4 & v6, DHCP, DNS SNMP v1, v2c & v3, Modbus/TCP, OPC-UA MIB for linking into 3rd party DCIM software FTP/SFTP (update/file transfer)   |
|                               | ,   |

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#### **Features**

| Ambient humidity (non-condensing) | 1095 %   |
|-----------------------------------|--|
| Storage temperature range         | -20 °C70 °C  |
| To fit                            | Enclosure type: VX IT enclosure frame: ≥ 800 mm<br>Enclosure type: VX IT 19" mounting angles: ≥ 800 mm |
| Packs of                          | 1 pc(s).   |
| Net weight                        | 2.8  |
| Gross weight                      | 3  |
| Customs tariff number             | 85366990   |
| EAN                               | 4028177948044  |
| E-Number Sweden                   | E8407070   |
| ETIM 9                            | EC002762   |
| ETIM 8                            | EC002762   |
| ECLASS 8.0                        | 27142604   |

## **Approvals**

| Approvals    | TÜV                       |
|--------------|---------------------------|
| Explanations | Declaration of conformity |

#### Tender text

Rittal PDU managed Model No.: DK 7979.402

Compact power distributor for deployment in IT server and network enclosures. Robust aluminium housing with permanently mounted output slots, IEC 60320/C13 or IEC 60320/C19 as well as CEE 7/3 (earthing-pin) and BS 1363 (UK), depending on the type

(see below for details). The IEC C13 / C19 output slots can be protected with a lock against unintentional removal of the connectors. Unused slots can be closed wicht slot covers available as accessories. This precludes an unintentional overloading of individual phases an circuits. The fuse circuits and phases are colour-coded for multiphase PDU variants. A connection cable with IEC C20 or CEE connector appropriate for the variant makes the PDU available for immediate deployment.

The PDU managed has extensive measurement and switching functions for the current and power monitoring of each output slot. The integral TFT colour display enables the basic configuration setting and quick access to the electrical consumption data. Two Gigabit network interfaces and the integrated Web server allow remote access and data transmission using various protocols. The consumption parameters can be forwarded to a DCIM software via SNMP, OPC-UA, Modbus/TCP. For monitoring the ambient parameters, up to 16 sensors (for example temperature / humidity / smoke / leakage / access) as well as VX IT and TS IT handle systems from the CMC accessories program can be connected to the CAN sensor interface.

The warranty for proper operation is 24 months.

Technical specifications managed

Input voltage range (L/N/PE): 230 VAC, 50-60Hz

input current: 16A No. of phases: 1

Marking of phases (3-phase PDU only L1, L2, L3):

Rittal Power Pink, black, white

Number of slots type IEC 60320/C13 (total): 6

Number of slots type IEC 60320/C13

(per phase/fuse): 6

Number of slots type IEC 60320/C19 (total): -

Number of slots type IEC 60320/C19

(per phase/fuse): -

Number of slots type CEE 7/3 (total): -

Number of slots type CEE 7/3

(per phase/fuse): -

No. of circuit brakers: -

Hydraulic-magnetic protective circuit-breaker: 16 A

Slots individually switchable: Yes

Connector PDU input: EN 60320, IEC 20

PDU housing width: 450mm PDU housing depth: 144mm

PDU housing height: 44mm (1HU)

PDU material: Aluminium, anodised, in RAL 9005 (black)<(>,<)>

other colours available on request

PDU mounting adaptor (VX IT / TS IT) - Mounting options:

Frame + Zero-U space + cable route

Measurement functions: Measurement per output or slot

Switching function: Switching per output slot

Values recorded (per phase): Voltage (V), current (A)<(>,<)>

frequency (Hz), Active power (kW), avtive energy (kWh)

apparent power (kVA), apparent energy (kWAh)

reactive power (var), power factor<(>,<)>

THD (voltage and current) for 3 phases<(>,<)>

Crest factor for single-phase<(>,<)>

Neutral conductor current measurement

fuse monitoring (at 32 A); optional:

Residual current monitoring (RCM): AC + DC (RCM type B)

max. 6 measurement points per PDU possible

(input / per phase / per fuse)

0 mA - 100 mA je RCM

Voltage measurement range: 90 - 255 V

Voltage resolution: 0.1 V

Current measurement range: 0 - 32 A

Current resolution: 0.1 A
Measurement accuracy: 1 %

Freely settable limit values per slot

for (warning/alarm): Voltage, current, power: yes

Operating hours meter: Yes Controllerboard:can be rotated and replaced during operation

Display: TFT, RGB 128x128 pixels

Network interface: 2x RJ45, per 10/100/1000 MBit/s

Supported protocols: IPv4 / IPv6<(>,<)>

integral web server, HTTP, HTTPS, SSL, SSH<(>,<)>

NTP, Telnet, TCP/IP v4 und v6, DHCP, DNS, NTP<(>,<)>

Syslog, SNMP v1, v2c und v3, Traps<(>,<)>

OPC-UA, Modbus/TCP<(>,<)>

FTP/SFTP (update/file transfer)<(>,<)>

E-mail forwarding (SMTP)

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User administration including rights management: Yes

LDAP(S)/Radius connection: Yes USB port for firmware update

and data logging functions: Yes

Initial commissioning / mass configuration:

yes, with predefined CSV file

CAN bus interface: RJ45, for connecting 16 sensors

CAN sensor types: Temperature<(>,<)>

temperature/humidity (combined),infrared access sensor<(>,<)>

leakage,ariflow,EFD, NH measurement module, smoke alarm

vandalism, differential pressure<(>,<)>

VX IT / TS IT handle system

Plug & play drivers - Rittal RiZone DCIM software: Yes

Digital input: 1

Alarm relay: 48 V DC/2 A Acoustic signal encoder

Serial interface:

RS232 (e.g. for LTE unit 7030.571)

Conformity: CE Standards:

Safety: EN 62368

EMV:

EN 55022 / B

EN 61000-4-2

EN 61000-4-3

EN 61000-6-2

EN 61000-6-3

Low Voltage Directive: 2014/35/EU

EMC Directive: 2014/30/EU MTBF (at 40°C) 100.000 hours

Protection category: IP20 (EN 60529)

Protection class: Class 1

Pollution degree: 2

Overvoltage category: II

Environmental properties: 2011/65/EU (RoHS 2), WEEE

Storage temperature: -20°C to +70°C Ambient temperature: +5°C to +50°C

Ambient humidity: 10-95% rel. humidity, non-condensing

Betriebshöhe (max.ü.NN.): 3000m

Connector lock for C14 and C20 connectors: 1x (further connector locks optional - DK 7979.020) Covers C13 (optional accessory): DK 7955.010

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Covers C19 (optional accessory): DK 7955.015

Warranty: 24 months

Type: Rittal PDU managed Model No.: DK 7979.402