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DK 7979.513 PDU metered plus

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



DK 7979.513 - PDU metered plus

High-end IT rack power distribution: intelligent PDU with energy measurement per output slot, i.e. output requirement of individual consumers.



Features

Model No.	DK 7979.513
Product description	High-end power distribution in compact design for IT network and server racks. With energy measurement per single output slot.
Benefits	<p>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</p> <p>Color coding of phases and backup circuits (L1 = pink, L2 = black, L3 = white)</p> <p>Tool-free installation kit for VX IT</p> <p>Self-powered PDU, no external power supply necessary</p> <p>Measurement accuracy $\pm 1\%$ (kWh) according to EN 62 053-21</p> <p>Integrated real-time clock with battery buffering (max. 10 years, battery replaceable)</p> <p>Integrated electromagnetic buzzer for acoustic alarm</p> <p>Adjustable limit values (warning/alarm) for current, voltage, output, individual settings for each output slot</p> <p>Energy-saving design, low energy consumption</p>

Features

Technical specifications	Display/controller unit in PDU enclosure, 180° rotation, replaceable Integrated, fully redundant power supply, power supply from all phases Fault-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 Neutral conductor measurement/load imbalance detection Fuse monitoring for PDUs with integrated fuse Bright TFT display 128 x 128 pixels (RGB) with back-lighting and energy-saving mode (display of output data and PDU configuration) Position sensors for display rotation and correct PDU display on the website Multi-colored LEDs (green/amber/red) to indicate switching states and limits per individual output slot Power LED for indicating voltage
Material	Aluminum section, black anodized Slots: plastic
Supply includes	Assembly components
Options	Type 3 overvoltage protection with interchangeable arresters while operational, with status monitoring, suitable for integration into PDU enclosure Differential current measurement (type B) per infeed/phase/fuse Monitoring of the optional overvoltage protection CMC III CAN bus sensors may be connected for ambient monitoring, max. 16 sensors Other enclosure colors possible
Measurement functions, description	Measurement per phase or infeed Additional measurement per output slot Powerful CPU (ARM Cortex A8) Digital input (floating contact) Additional alarm output/relay output (changeover contact)
Dimensions	Width: 44 mm Depth: 70 mm Length: 1,095 mm
Number of sockets and type	12 x C13 / 4 x C19
Outlets	12 x C 13 4 x C 19

Features

Rated operating voltage	230 V (AC)
Rated current (max.)	32 A
Rated power	7.4 kW
Infeeds	Qty.: 1 Phases per infeed: 1~
Length of connection cable	3 m
Type of connection (electrical)	CEE
Interfaces	USB 2.0 port (USB-A) for bulk configuration, firmware update & data logging CAN bus interface (RJ45) for a maximum of 16 ambient sensors RS232 serial interface (RJ12) for LTE unit, scripting, CLI Use of own certificates/TLS 1.2 Email sending in case of alarm (SMTP) User management including rights management LDAP(S)/Radius/Active Directory connection Syslog server connection (maximum 2 servers) Fully redundant Ethernet interface 10/100/1000 Mbit/s
Number RJ45 ports for sensor units max	2
Guidelines	EMC Directive 2014/30/EU Low-Voltage Directive 2014/35/EU
Standards	EN 62368-1 EN 61000-3 EN 61000-4 EN 61000-6 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 use in 3rd party DCIM software FTP/SFTP (update/file transfer)
Operating temperature range	5 °C...50 °C
Ambient humidity (non-condensing)	10...95 %

Features

Storage temperature range	-20 °C...70 °C
Suitable for	Enclosure type: VX IT enclosure frame: ≥ 1,200 mm Enclosure type: VX IT 19" profile rails: ≥ 1,800 mm
Packaging unit	1 pc(s).
Net weight	4.5 kg
Gross weight	4.5 kg
Customs tariff number	85366990
ETIM 9	EC002762
ETIM 8	EC002762
ECLASS 8.0	27142604
Product description	DK PDU metered+, compact basic power distribution incl. energy measurement per output, with network interface and display, WLD: 44x1095x70 mm, IEC 60 320: 12x C13, 4x C19

Approvals

Approvals	TÜV
Explanations	Declaration of conformity