



SMARTPDU

New
Product



innovation
& solution

DDN: 08-006-2024-01-B

Production Catalogue 2024



Innovative solutions for advanced technologies
in data centers and rack cabinets:

Dorax Smart Series

SMART PDU

Dorax, a manufacturing company of rack cabinet components such as Power Distribution Units, In-cabinet LED Lighting, and Fan Systems is revolutionizing IT infrastructure with a product line of smart PDUs

Advanced power management units, commonly referred to in the industry as “Smart PDU,” “IP PDU,” “Intelligent PDU,” or “Metered PDU,” are being elevated to a new level with the **Dorax SMART PDU Series**.

This innovative series features a modular structure that can be tailored to needs, offering full remote control over the system’s energy flow, minimizing energy loss, and maximizing performance.

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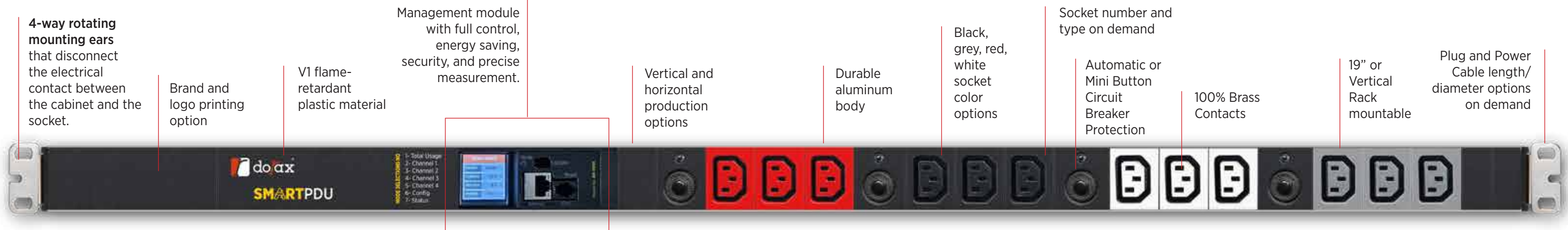
The **Dorax Smart PDUs** in addition to power distribution, also measures energy, power, current, and voltage. It performs individual channel control and shares this information over the network.

It supports configurations such as single-phase with four channels or three separate phases (two channels for L1, one for L2, and one for L3 phase distribution). Measurements can be conducted separately for each channel, with channels controllable manually or automatically.

PDU data is shared via Ethernet using the SNMP protocol and, in automatic mode, sends pings to a target IP address using the ICMP protocol.

Control Features

Power Input	85-250VAC, 63A max. The PDU consumes 5W max and the PDU's own consumption is not accounted for in the load calculations. No regulation or filtering is applied to the input voltage; the provided power is distributed directly to the channels.
Power Output	Total of 63A max, can be distributed between channels or groups
Energy Measurement	Energy measurements are displayed in kWh, with 1000 kWh represented as 1 MWh . The energy value is recorded hourly. If the device is restarted or loses power before recording, it continues from the last saved value once operational again.
Power Measurement	Power is measured individually for each channel. The total power distributed by the device is also calculated. Error margin is maximum of ±3%
Current Measurement	Current is measured using an electric field method, with a maximum measurement capacity of 63A. Error margin is maximum of ±2.5%
Voltage Measurement	Voltage is measured within the range of 85-250 VAC. Error margin is maximum of ±2.5%
Channel Control	Dorax Smart PDUs can have maximum of 4 channels . A relay can control either one of these channels or any other desired connection to the relay can be made. The channel controlled by the relay can be switched ON or OFF



4-way rotating mounting ears that disconnect the electrical contact between the cabinet and the socket.

Brand and logo printing option

V1 flame-retardant plastic material

Management module with full control, energy saving, security, and precise measurement.

Vertical and horizontal production options

Durable aluminum body

Black, grey, red, white socket color options

Socket number and type on demand

Automatic or Mini Button Circuit Breaker Protection

100% Brass Contacts

19" or Vertical Rack mountable

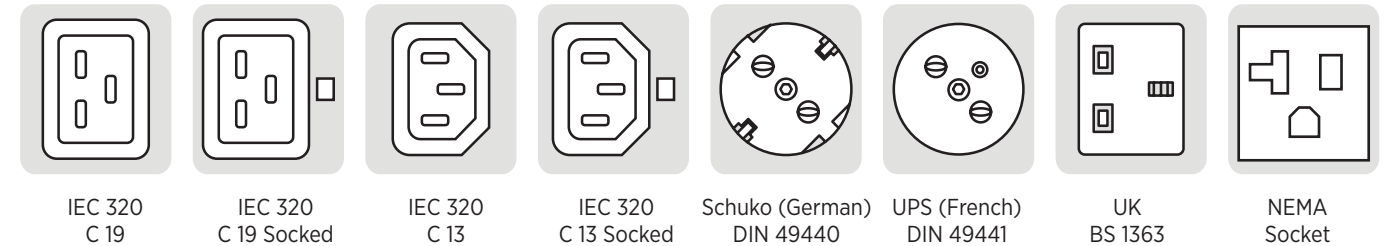
Plug and Power Cable length/diameter options on demand

General Features

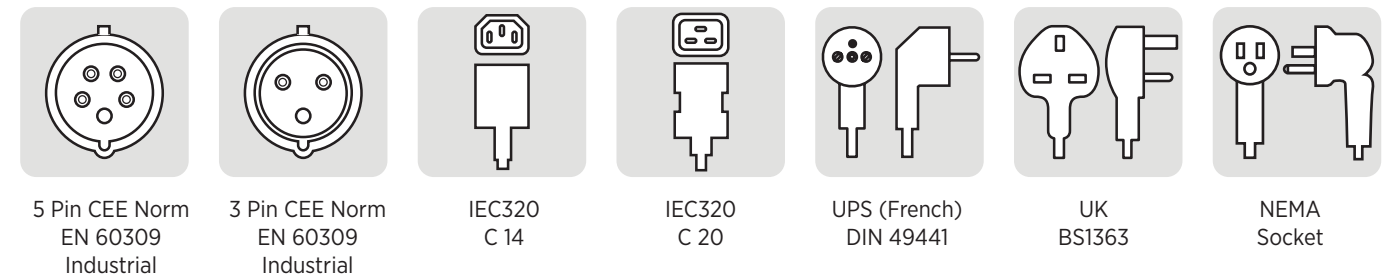
- 3-phase or single-phase input
- Input voltage is equal to output voltage.
- Total power and volt/ampere measurement (input)
- Power and current measurement per channel
- Socket control option for 1st channel with relay (max 16A)
- Relay control is also possible for other functions (max 16A)
- Built-in 1.54" inch, 240 x 240 IPS TFT screen
- Ethernet 10/100 Base-T/TX • SNMP V2 / V3
- Automatic ping feature to the target IP address
- Individual alarms for power, current, and voltage (Min-Max) for each channel
- Software updates via type-C USB
- Cable length and diameter, plug and socket type options available
- Aluminum body (Gray or black options), 1U / 2U standard
- Flame-retardant sockets available in black, red, grey or white colors
- Vertical and horizontal mounting options
- Modular Structure
- 2 Year Warranty

Modular Features

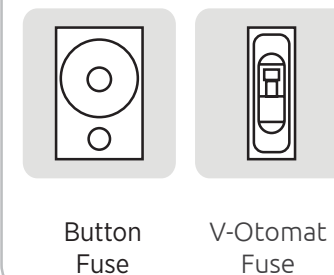
Socket Types



Plug Types



Control and Protection

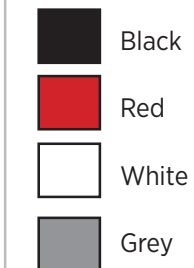


Number of Sockets

1+X

Option for any number of sockets

Socket Color



Cable Length*

1 m. | 1,5 m. | 1,8 m. | 2 m. | 2,5 m. | 3 m. | 5 m.

Cable Diameter

5 x 2,5 mm² | 3 x 4 mm² | 3 x 4 mm² | 3 x 6 mm² | 5 x 4 mm² | 5 x 6 mm²

* These are standard dimensions. They can be scaled according to need.

Button Fused Smart PDU

In the button fuse system, the button pops up when an overcurrent occurs. Simply press it again to reset the protection. Cannot be manually turned on or off.



Automatic Fuse SMART PDU

Automatic fuses protect your devices by automatically cutting off the electrical current in case of overcurrent or short circuit in the electrical system. Can also be manually turned on or off.



Power and brand can be customized according to specific needs.

IEC 320 (C13-C19) Lockable Socket Smart PDU



IEC 320 (C13-C19) Lockable Socket Smart PDU



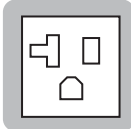
IEC 320 (C13-C19) Socket Smart PDU



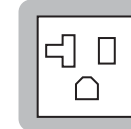
IEC 320 (C13-C19) Socket Smart PDU



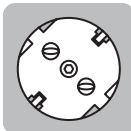
NEMA Socket Smart PDU



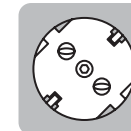
NEMA Socket Smart PDU



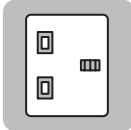
Schuko (DIN49440) Socket Smart PDU



Schuko (DIN49440) Socket Smart PDU



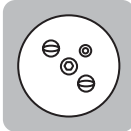
UK (BS1363) Socket Smart PDU



UK (BS1363) Socket Smart PDU



UPS (French DIN49441) Socket Smart PDU



UPS (French DIN49441) Socket Smart PDU



Dorax Standart PDU

In addition to Smart PDUs, DORAX Basic Power Distribution Units also provide security and energy in all systems and devices, especially in data centers.

Our products, which we design based on efficiency, longevity and durability, can offer the most suitable solutions to users with our standard or personalized model options.

Products with CE, OHSAS, RoHS and ISO standards have successfully passed all performance and durability tests, and the innovations they have implemented have received patent protection.

Certificates



Special Production and Vertical PDU

You can supply your needs other than the standard product options offered on Doraks.com.tr or Dorax catalogs with a flexible, fast, qualified design and production process.

PDU products with all features and combinations starting from a single socket - horizontal or vertical - can also be produced with OEM options.

Features you can choose according to your needs:

Socket type, number, color	Horizontal / Vertical orientation
Protection type and number	Cable diameter and length
Number of phases	Body material
Length and height	Ear material
Plug type	Brand printing

Dorax ECO Series

Dorax ECO Series power distribution units, which offer price advantages in high-volume projects or stock purchases, are the ideal solution for international quality and cost-oriented targets!



v-Automatic Fuse Protection



ON/OFF Switch



Volt/Ammeter



Button Fuse



EMI Filter



Surge Arrester Protection



Multimeter Display



Leakage Current Fuse

Schuko
Fransız (UPS)
UK
C13 - C19
C13 - C19 Locked
Nema
EKO Series
Special Vertical PDU,
DC PDU,
Central system PDU,
and learn about other
Dorax solutions.

www.doraks.com.tr

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SMARTFAN



Fan Systems

The fan units and modules designed and manufactured by Dorax are setting a new standard in rack cabinets and data centers with their quiet operation, long lifespan, performance, and ease of installation. Whether you need complete units or the individual modules and components that make up these units, they represent the latest marvels of Dorax innovation...

Innovative solutions for advanced technologies
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Dorax Smart Series

SMARTLED



Rack Interior LED Lighting

Dorax LED Lighting Modules are designed to enhance visibility in both the interior and exterior environments of rack cabinets under dark working conditions. They offer an ideal solution for functional, durable, and aesthetically pleasing cabinet interior lighting.

19" LED Modules

Overhead LED Modules

Bar Profile LEDs

Custom LED Products



To get information about Dorax products that are innovative, have documented quality and can be personalized according to your needs, you can call / send a message to our experts on our WhatsApp line **+90 533 895 19 66**, contact us via e-mail at **info.doraks.com.tr**, or you can order instantly from **www.doraxshop.com** very soon.



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