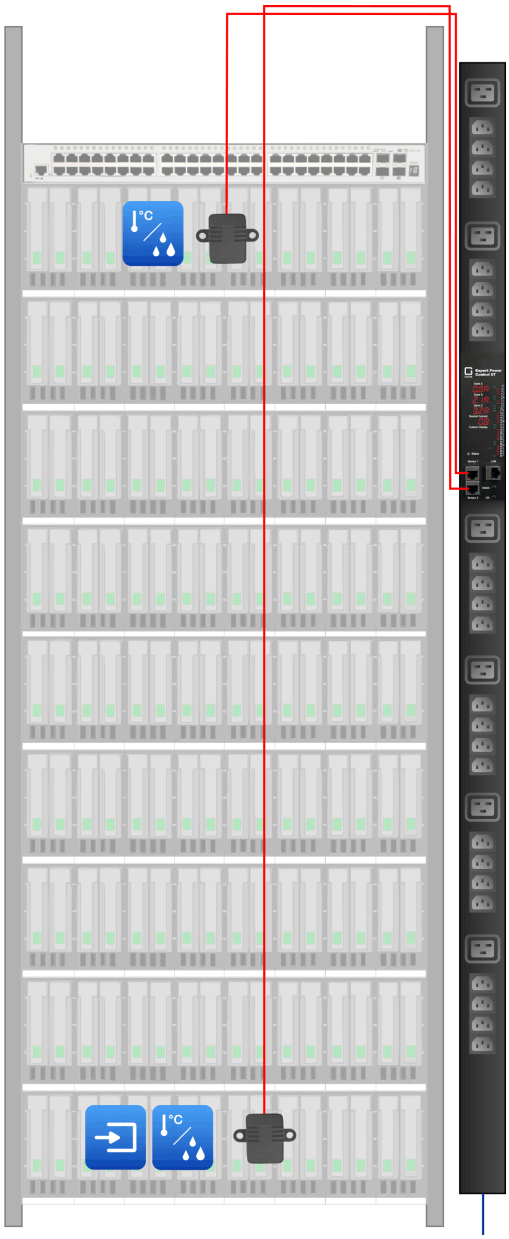
Switched & Metered Power Distribution Units

Size matters! No 19“ rack without a vertical IP Power Distribution Unit

new



Expert Power Control 87 Series
With 20 or 30 switchable load outputs, it‘s the perfect control and monitoring system for 19-inch racks

Your triple benefits

More Safety

The vertical power strip has **20 and 30 load outlets** (IEC C13 or IEC C19). This allows connected devices to be **switched off and on again** in the event of a fault. Thanks to integrated watchdogs, frozen devices can even be **restarted fully automatically**. In addition, **overvoltage protection** (type 3) prevents damage of device and of connected consumers.

More Sustainability

The new IP power solutions can effectively reduce the installation‘s **energy consumption and electricity costs**: **Collective switching off** of several power consumers, especially with **programmed switching routines**, help to ensure sustainable operation of the infrastructure. **Free drivers** of cooperating technology partners allows **quick and easy integration** into existing media controls and DCIM solutions.

More Control

Two integrated connections for compatible accessory sensors allow **monitoring of ambient temperature, humidity and air pressure**. System-critical conditions are thus detected at an early stage. Defined threshold values also ensure that **event-based switching routines** can be initiated and **alarm messages** sent. Thanks to **hot-pluggable sensors**, commissioning is done in no time at all.

Application scenarios for vertical PDUs

- Server racks & technical rooms
- AV and IT racks
- Lecture halls & universities
- Laboratory/healthcare facilities
- Super yachts
- Data centers

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made in Germany

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Switched & Metered Power Distribution Units

Expert Power Control 87 Series

20 / 30

Intelligent PDU with 20/30 load outputs and integrated measurement and monitoring functionality

Features

- Up to 30 load outputs individually switchable (16A, 3x16A)
- All load outputs individually switchable at the device, via HTTP(S), SNMP, ModbusTCP as well as via command line interface using Telnet, SSH and MQTT
- Switching state and switch-on delay (0...9999 seconds) adjustable for each power port after power failure
- Current peaks during simultaneous switching operations are prevented by an automatic latency of 1 second
- Programmable schedules and on/off sequences
- Input-side measurement of current, voltage, phase angle, power factor, frequency, active, apparent and reactive power
- 2 energy meters, one meter counts permanently, the other is resettable
- 20-/30-channel watchdog, each power port can be assigned its own watchdog (ICMP/TCP)
- Connection for plug-n-play sensors for environmental monitoring (temperature, humidity, air pressure)
- Load outputs can be switched when preset sensor thresholds are exceeded
- Integrated surge protection prevents damage of device and of connected consumers (L-N 10 kA), status retrievable over network (for 87-1210-18 and 87-1310-18)
- Easy-to-read and configurable LED displays for revealing total current, IP address, sensor values and error messages
- Buzzer for audible alarm when sensor thresholds are exceeded
- Long-life high-Inrush relays prevent welding of relay contacts during inrush current peaks
- Easy and flexible configuration via web browser, Windows or Linux program
- Firmware update possible during operation via Ethernet
- IPv6-ready
- Generation of status messages and alarms (e-mail, syslog, SNMP traps, MQTT, SSH and Telnet)
- Encrypted e-mails (SSL, STARTTLS)
- Access protection through IP access control
- SNMPv1, v2c, v3 (Get/Traps)
- Encrypted communication via SSH and SSL (TLS 1.1, 1.2, 1.3)
- Password protected access
- Support of Radius, Modbus TCP and MQTT 3.1.1
- Configuration and control via Telnet
- Low power consumption
- Developed and produced in Germany

Electrical Connections

- Mains connection:
  87-1210-18: IEC C20 (max. 16 A, 230 V)
  87-1310-18: IEC C20 (max. 16 A, 230 V)
  87-3300-18: CEE (max. 3x 16A, 400 V)
- Load outputs:
  87-1210-18: 16x IEC C13, 4x IEC C19, 16 A
  87-1310-18: 24x IEC C13, 6x IEC C19, 16 A
  87-3300-18: 24x IEC C13, 6x IEC C19, 3x16 A
- Ethernet connector RJ45 (10/100 Mbit/s)
- 2 Sensor connectors RJ45 for plug-n-play sensors (temperature, humidity, air pressure)

Technical Details

- Housing for vertical rack mounting (0 U), including mounting bracktes (LxHxW)
  87-1210-18: 135 x 8 x 6.5 cm
  87-1310-18: 170 x 8 x 6.5 cm
  87-3300-18: 170 x 8 x 6.5 cm
- Sturdy housing made of eloxated aluminum
- Weight: 20 outputs: 2.9 kg, 30 outputs: 3.9 kg
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

Expert Power Control 87 Series
IP power strip with up to 30 IEC connectors

Order code	Product	Feature	Power supply	Max. current
87-1210-18	Expert Power Control 87-1210-18	20 switchable output: 16x IEC C13, 4x IEC C19, mains connection IEC C20, 16 A, input metering, surge protection (SPD type 3)	230 V	16 A
87-1310-18	Expert Power Control 87-1310-18	30 switchable output: 24x IEC C13, 6x IEC C19, mains connection IEC C20, 16 A, input metering, surge protection (SPD type 3)	230 V	16 A
87-3300-18	Expert Power Control 87-3300-18	30 switchable output: 24x IEC C13, 6x IEC C19, mains connection CEE, 3x 16 A, current metering per phase	400 V	3 x 16 A
7205	Temp., Humidity Sensor 7205	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity		
7206	Temp., Humidity, Air pressure Sensor 7206	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, 300-1100 hPa		
7209	Temp., Humidity, Signal Sensor 7209	Plug-n-play sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 2 passive signal inputs		

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