Technical System Catalogue
Power Distribution Rack
Benefits of the PDR at a glance:

- Low-voltage distribution (UV) for 250 A per phase (160 kW per rack)
- Suitable for connection to TN-S and TN-C-S networks
- Integral, lockable master switch
- Special versions available with two infeeds per rack
- Compact dimensions, just 800 x 2000 (1200) x 500 mm
- Only the front needs to be accessible for connection and installation of the modules
- Outgoing modules (PDM, for max. four IT racks) may be flexibly retrofitted
- Ready-assembled, tested rack with VDE approval
- Special versions available, e.g. for all-pole disconnection (L1–L3+N)
- Once installed, operation and extension may be carried out by instructed personnel
- Two sizes for 4 or 8 module slots (height 1200 or 2000 mm)
- Cable routing inside the rack, and cable entry from above or below, are supported
- Light, pale grey rack in RAL 7035
- Optional base/plinth made from sheet steel or plastic
Power Distribution Rack

The Power Distribution Rack (PDR) is a modular power distributor for data centres in enclosure form. Thanks to its compact dimensions, the PDR may be integrated both into bayed enclosure suites as an end enclosure, and into technical rooms.

The glass door with comfort handle and semi-cylinder allows the fuses to be monitored at a glance. The use of individual locks is supported.

The robust structure comprises a TS 8 rack with integral, shock-hazard-protected bar system. The bar system is 5-pole and designed for a current of 250 A.

At the infeed, the PDR has a terminal strip and a master switch with 3-pole disconnect. Provided the infeed has been connected by a qualified electrician, the remaining configuration with the required output modules (PDM) may also be carried out by suitably instructed personnel.

In this way, the PDR may be flexibly adapted to individual needs, and represents a good alternative to individually planned distribution enclosures.

Power Distribution Module

The Power Distribution Module (PDM) is designed for plug & play installation in the PDR. The sheet steel enclosure in 482.6 mm (19") format (3 U) has 4 outputs in the standard version (16 A each, 3-phase). Every module has its own master switch and the requisite circuit-breakers (16 A, type C, 1-pole).

As well as the standard version, additional top-hat rail components (such as residual-current circuit-breakers) or a differential current meter may be integrated into a project-specific PDM. A PDM with 32 A outputs, and with 1- and 3-phase outputs, is also available.

A corresponding rack PDU (or PSM busbar) is connected to each output of the PDM.

Different power distribution module versions may be operated jointly in one PDR, creating a flexible, easily extended power distribution solution for data centres.

Benefits of the PDM at a glance:
- Output module (PDM, 63 A phase current, 44 KW distribution capacity)
- Integral 3-pole master switch
- Compact PDM, just 482.6 mm (19") x 3 U x 300 mm
- Light, pale grey enclosure in RAL 7035
- Ready-to-use solution for 4 racks (3-phase, 16 A each)
- Protected against short-circuits with a circuit-breaker (16 A, type C)
- Identification strips for labelling the outputs/fuses
- Integration of standardised top-hat rail components supported
- Flexible configuration is available on an individual project basis
- May be retrofitted by suitably instructed personnel whilst operational
- Ready-assembled, tested design with VDE approval
**Power Distribution Rack**

**Your benefits**
- Holistic, systematic energy management concepts
- Comprehensive, complete solutions for power distribution and back-up, consistently modular, and flexibly extendible at any time
- Optimum energy and cost efficiency with maximum availability of the entire system
- Reduced installation, administration and manpower costs
- High level of investment security
- All from a single source

**Sample applications**
1. Power Distribution Rack PDR
2. Power Distribution Module PDM
3. Power System Module PSM
4. Rack power distribution – PDU or modular PDU (PSM)
5. UPS (partner product)
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- Power Distribution
- Climate Control
- IT Infrastructure
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