



Power distribution units for a reliable power supply

Power distribution solutions from SCHÄFER IT-Systems
for greater flexibility and efficiency

SCHÄFER IT-Systems – the specialist for IT infrastructures

SCHÄFER IT-Systems is part of the internationally successful SCHÄFER WERKE Group and an innovative manufacturer of customised network and server cabinet solutions as well as data centre solutions for conventional and complex applications.

At our site in Betzdorf/Sieg, we develop and produce innovative server and network cabinets as well as customised data centre solutions for our customers.

The data centres of the future are what drive us. We are your competent partner for products that reduce costs and save energy. With our IT racks and concepts, we make an active

contribution to energy efficiency and positively influence all important components of the infrastructure of the entire data centre.

As part of the owner-managed SCHÄFER WERKE Group, headquartered in Neunkirchen in the Siegerland region, we are active worldwide with diversified business areas. At our state-of-the-art locations in Germany, the Czech Republic and the USA, over 1,100 employees contribute to the success of the SCHÄFER WERKE Group every day.



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iQdata – the integrated system solution



Rack

- Network and server racks
- Colocation racks
- Cable management
- Accessories



Cooling

- Fan
- WallCooler
- Slot-InCooler
- Enclosure
- SideCooler
- BackCooler/IVU
- Cold water chillers
- Free cooler
- In-RackCooler



Power

- Basic Rack PDUs
- Smart Rack PDUs
- UPS systems
- Busbar systems



Monitoring

- Rack monitoring systems
- Room monitoring systems
- DCIM



Security

- Early fire detection
- Rack extinguishing systems
- Door locking systems



Service

- Planning support
- Energy efficiency analyses
- Maintenance/spare parts
- Commissioning and factory acceptance tests
- Assemblies
- Cleaning

Performance matrix – our powerful rack PDU solutions at a glance

Overview of the PDU product ranges

Our performance overview of our two PDU product ranges iFlex Rack PDU and EasyNet Rack PDU gives you a comprehensive overview of the performance and possible applications of our products. iFlex Rack PDUs are high-quality power distribution

units for server racks that are ideal for the data centre and edge market. The EasyNet Rack PDU is our basic PDU for economical use and is used in the network technology market. Both products have the highest security and quality features.

● available ○ optional – not available

Features	iFlex Rack PDU				EasyNet Rack PDU	
	Managed (from page 22)	Switched (from page 22)	Output Metered (from page 22)	Input Metered (from page 22)	Basic (from page 26)	Basic (from page 34)
Profile dimensions (H x D)	65 mm (1.5 U) x 52.6 mm				44 mm (1 U) x 47 mm	
Display	●	●	●	●	–	–
Network interface	●	●	●	●	–	–
Measuring at input level	●	●	●	●	–	–
Measuring per group	○	○	○	○	–	–
Measuring per output	●	–	●	–	–	–
Switching per output	●	●	–	–	–	–
Residual current measurement at input level	○	○	○	○	–	–
Surge protection	○	○	○	○	○	○
Connection option for sensors	●	●	●	●	–	–
Customisable (e.g. engraving, colour, outputs with and without locking)	●	●	●	●	●	–
Mounting	Toolless mounting knobs on the back for hooking into SCHÄFER IS-1 mounting brackets; Fixed mounting brackets for 19" PDUs Fixed or tool-free mounting in SCHÄFER cabinet systems or also in other cabinet systems				Mounting bracket on end caps, rotatable in 90° increments	



iFlex Rack PDU – individual power distribution for data centres and edge applications

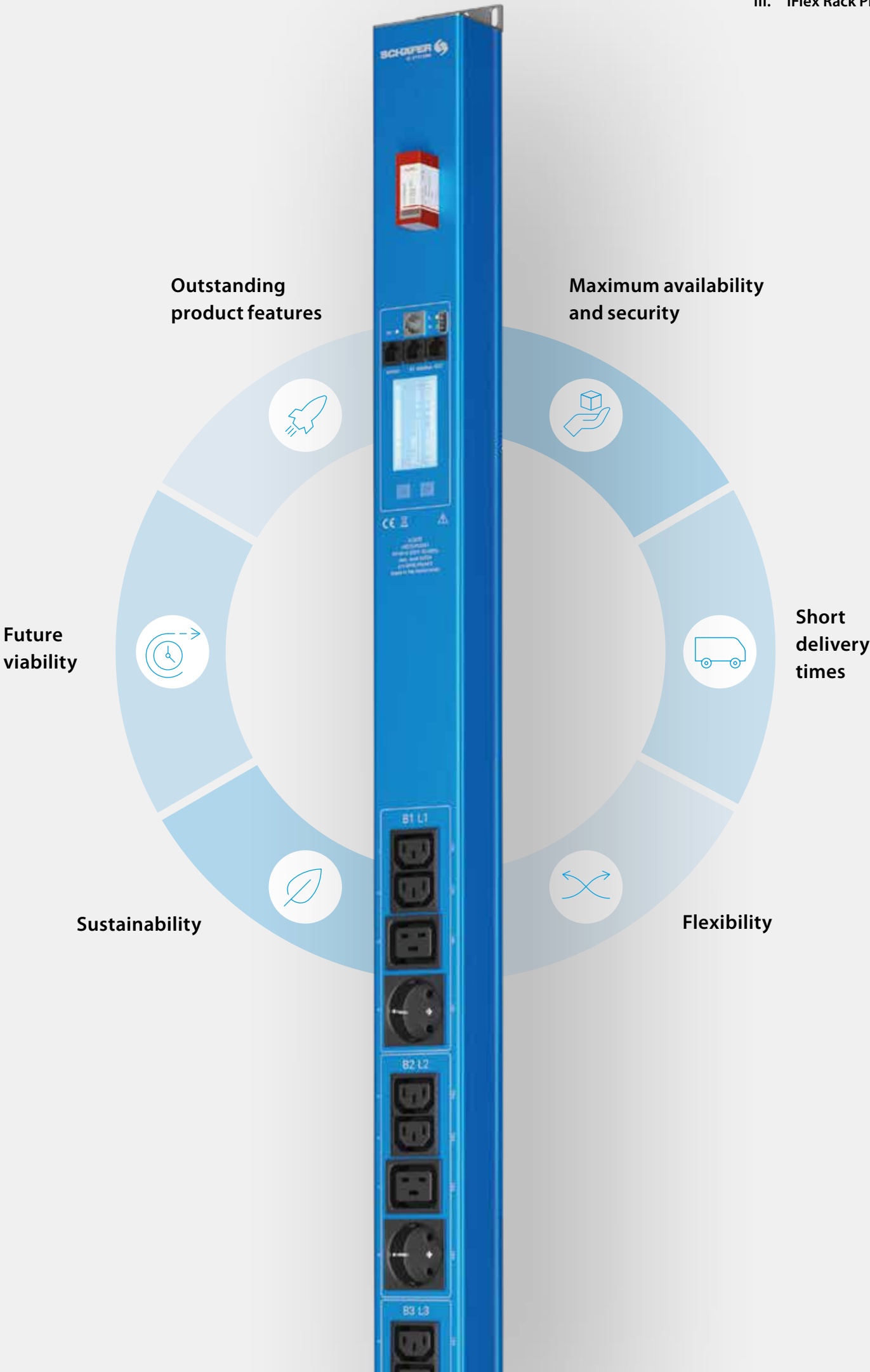
From basic to fully managed PDUs, SCHÄFER IT-Systems offers you suitable solutions for every requirement. With the iFlex Rack PDU, you get a product that not only guarantees reliable power distribution, but also ensures successful monitoring and control of the power supply in server and IT racks. External sensors also allow ambient conditions to be monitored. The modular iFlex Rack PDU enables easy customisation to individual requirements, even for small quantities. Our flexible solutions adapt seamlessly to your IT infrastructure.

Our wide range of PDUs not only offers you versatility, but also the assurance that quality, efficiency and reliability are paramount. We

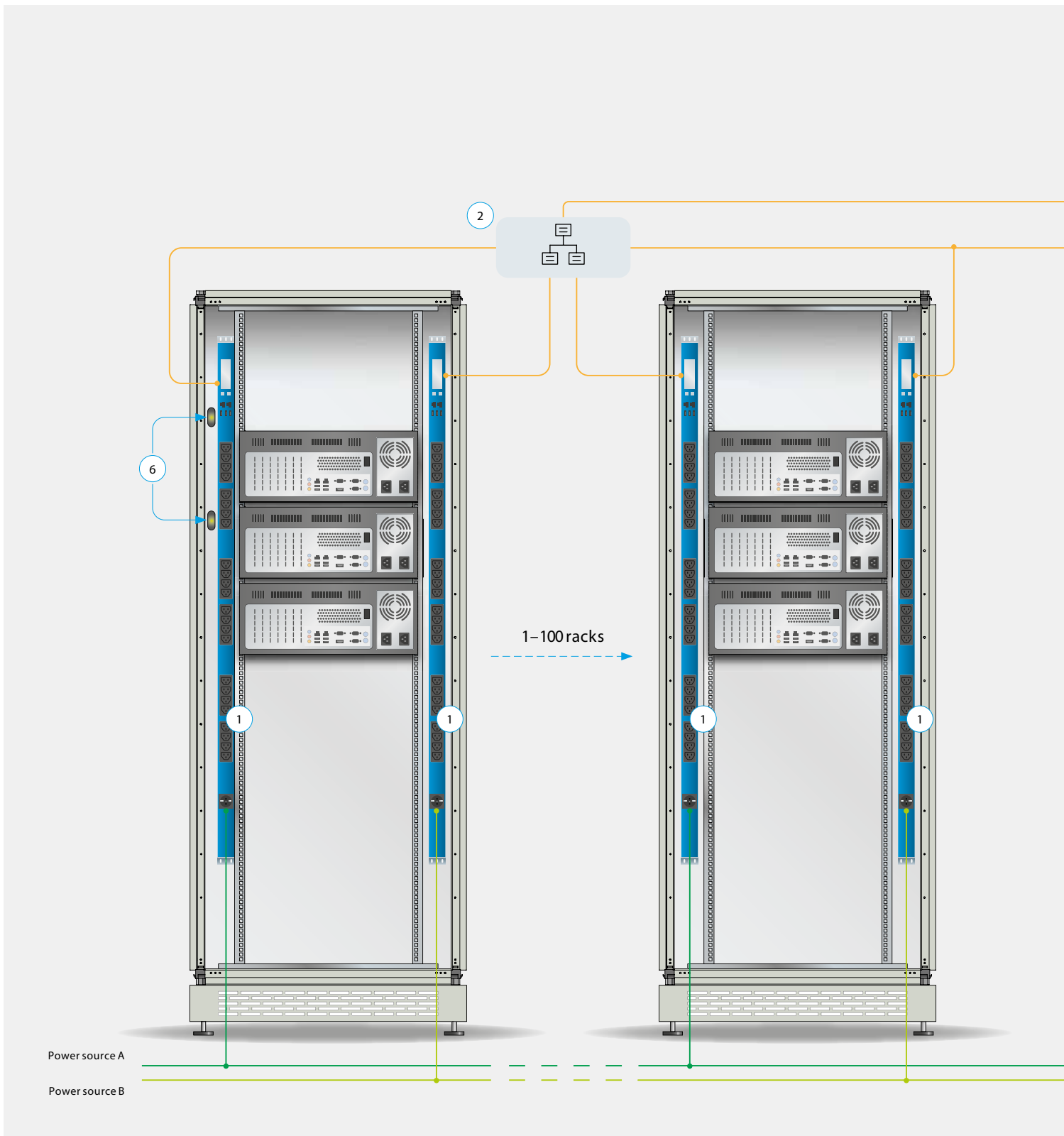
attach great importance to advanced, customisable and sustainable power distribution solutions.

At SCHÄFER IT-Systems, we develop our rack PDUs to meet the most important challenges facing our customers. This includes ensuring availability and security as well as economic benefits through future viability and sustainability. We guarantee high product availability through regional production and integrated development, including production at one location. At SCHÄFER IT-Systems, we also work closely with regional suppliers. Short transport routes and the associated low energy consumption contribute to the fulfilment of your sustainability goals.

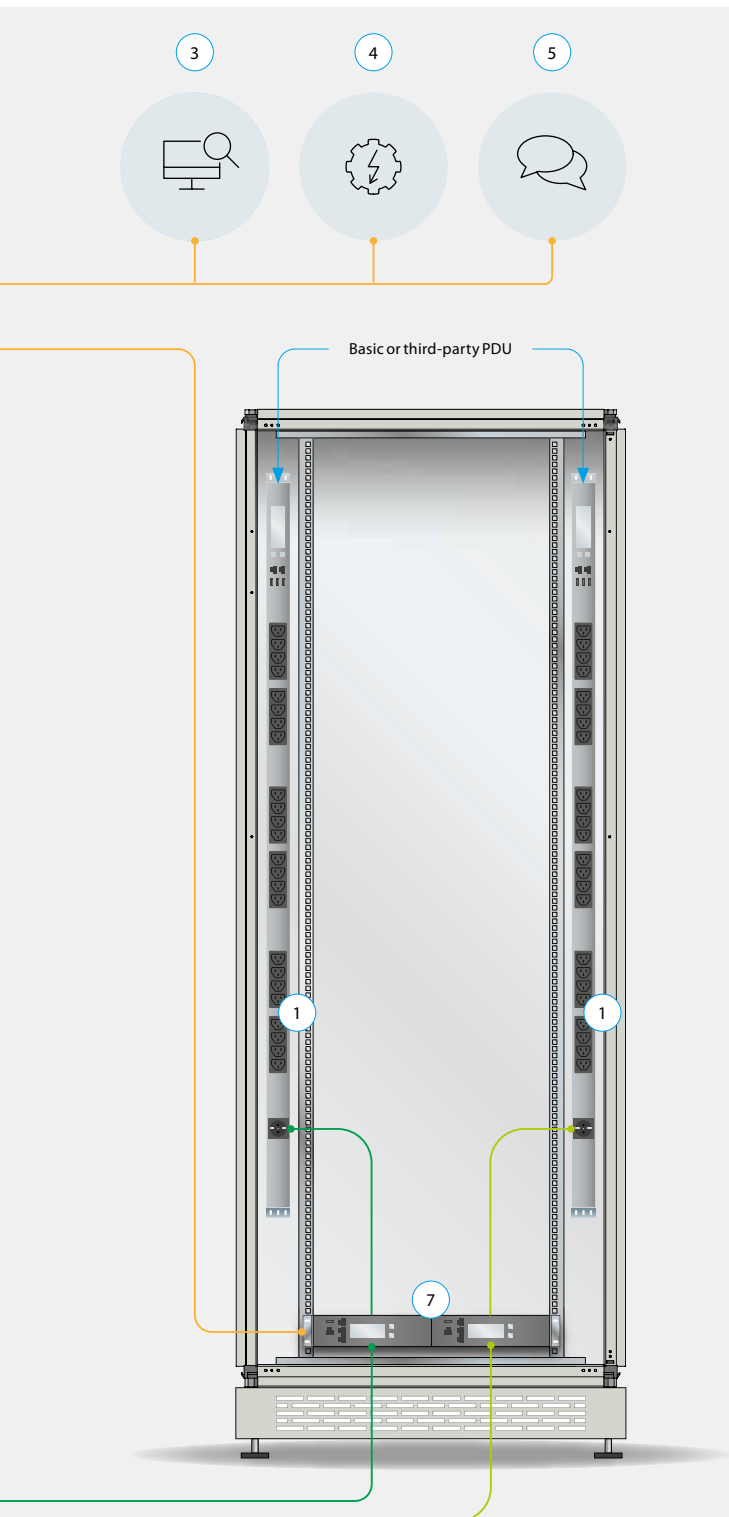




Successful PDU use in your data centre



Power supply technology is one of the most important components of a data centre. Our power distribution units (PDUs) provide the basis for smooth server operation.



The components

1. iFlex Rack PDUs

Managed, switched, metered or basic PDUs, up to max. 3 x 63 A supply the loads in the rack redundantly with power via feeds A and B.

2. Network

In this example, the PDUs are individually integrated into the network. Further integrations possible.

3. Web-based monitoring

Web-based monitoring is available for each PDU. This displays the status, alarms, all measured values and environmental conditions of the connected external sensors. If the PDUs are integrated in series via an IP address, you can control and monitor up to 100 PDUs via one interface.

4. SCHÄFER IT-Systems energy management system

The system is a DC automation tool that helps to increase operational reliability and security and reduce the workload for audits.

5. Third-party energy management system

The PDU communicates with open protocols (e.g. SNMP, http/s, Modbus or API), integration into other management tools is possible.

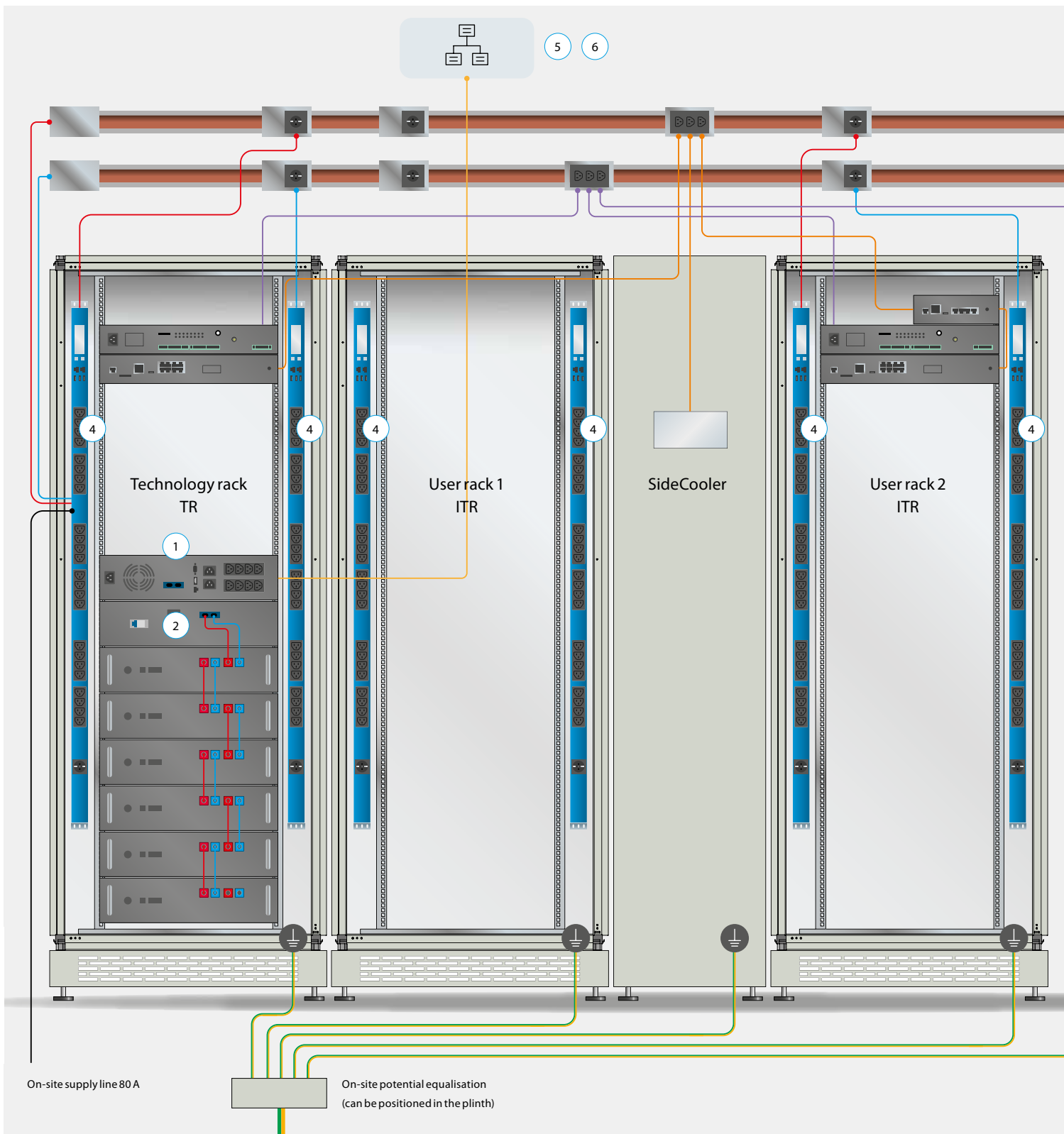
6. Environmental sensors

Various environmental sensors (e.g. temperature, humidity, input contacts) can be connected to the PDU.

7. Inline Metering System

The Inline Metering System integrates basic PDUs or third-party PDUs into the management platform.

Rack PDUs, UPS systems and other power distribution components in the edge area



In order to guarantee data transmission in the millisecond range as the amount of data increases, data centres should (theoretically) not be far away. In many places, however, this is not possible.

Edge computing aims to bring data processing closer. Edge data

centres are decentralised IT locations at the edge of a network.

With computers and storage, we provide you with a largely virtual network for reliable local data processing.



The power components

1. Powerbox

19" Powerbox (with type B residual current measurement, selective individual load fusing and UPS bypass switch) distributes the power in the rack to the respective loads with maximum security and availability in accordance with EN 50600. Managed, switched or metered PDUs up to max. 3 x 63 A provide the loads in the rack with redundant power via feeds A and B.

2. Online UPS with battery extension

Compact 19" online UPS (VFI-SS-111) with 15 minutes autonomy time at 100% load supplies the components (including integrated cooling and monitoring) in the event of a power cut so that the servers can be shut down in a controlled manner if required.

3. Busbars

Two separate busbars (for feed A and feed B) distribute the power to the respective racks.

4. Rack PDUs

Two PDUs per rack (for feed A and feed B) supply the servers in the rack with redundant power. Depending on the requirements, the PDUs are designed as switched, metered or basic PDUs. In addition, a residual current measurement can be integrated so that the residual current can be localised at rack level.

5. Standard monitoring

A rack monitoring system monitors all important parameters and clearly displays the status and alarms as well as trending of the ambient conditions via a web-based page.

6. Advanced Monitoring

In addition to the status and alarms, additional monitoring functions are supported.

The efficient energy management system from SCHÄFER IT-Systems

With our energy management system, it is possible to increase operational reliability and security and reduce the workload for audits. With our DC automation tool, we take a user-friendly approach to DC automation. The system reliably supports IT devices such as PDUs, UPSs and air-conditioning units.

The advantages of the energy management system at a glance

▪ Audits and reports

Keep track of your energy and heat budgets in real time and easily generate reports on any energy or environmental aspect of your data centre. Display customisable charts and easily export data to Excel.

▪ Compliance with the German Energy Efficiency Act (EnEFG)

EnEFG Sections 13 and 14 require the publication of energy consumption data in public registers. This new regulation requires operators of distribution centres to carry out detailed monitoring, which you can do with our tool.

▪ Audit-proof reporting

Receive reports by e-mail, not only to keep up to date, but also to use existing audit-proof e-mail services to store reports. Experience greater security through automatic Excel exports of report data.

▪ Blue Angel and individual reports

The detailed audit requirements for voluntary certification go beyond the calculation of the PUE, but can be fully automated with the help of our solution. This will strengthen your credibility.

▪ Failover simulation

Failover simulations in real time give you security in capacity planning. By setting the energy threshold for the rack cabling, you can see how close you are to a failover before an overload situation occurs.

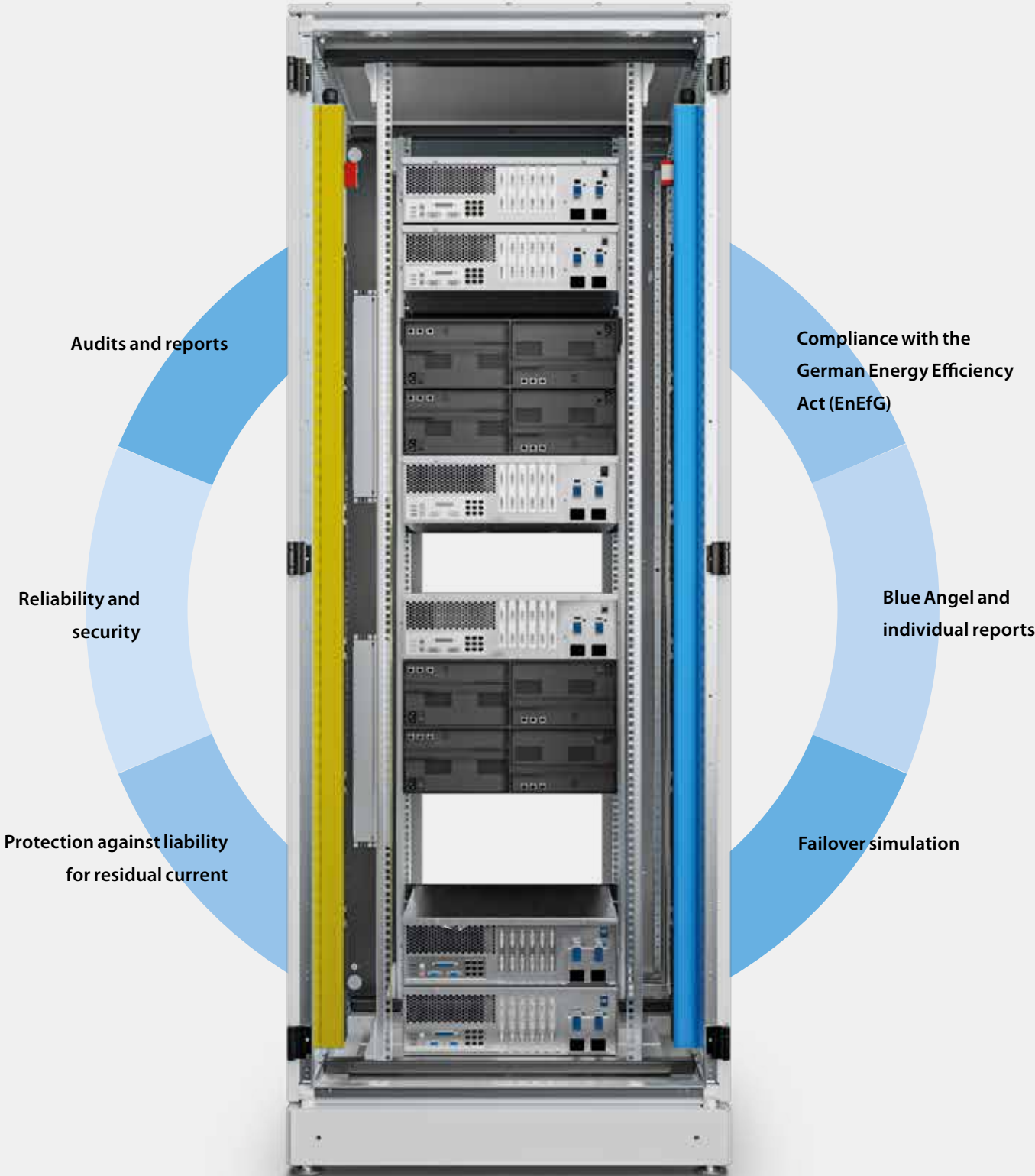
▪ Protection against liability for residual current

To ensure electrical safety, the residual current should be monitored and checked in real time. Our state-of-the-art, intelligent threshold value management system can dynamically adjust the residual current threshold values to the number of servers and their load.

▪ Reliability and security

Our software fully automates the backup and centralised restoration of devices. The software is also integrated into company certification centres in order to register IT devices, such as PDUs, fully automatically and such that they are verified. Manufacturer firmware updates can also be rolled out in this way.





iFlex Rack PDUs – secure, future viability, simple



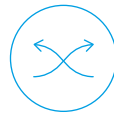
Maximum availability and security

- Compliance with legal regulations for fire protection reasons in sensitive areas such as public facilities thanks to **complete freedom from halogen** (including the input cable).
- Maximum availability and security with unbalanced loads thanks to **larger cable cross-section** with 32 A version (6 mm², thus less heat development) and **measurement of the N conductor**.
- Maximum availability during switching operations due to near-zero voltage **switching**. Special blade servers generate high inrush current peaks.
- Maximum safety in the event of a power cut thanks to a **bistable relay** and the option of selecting the switch-on behaviour after the supply voltage returns following a power cut (e.g. holding the previous switching state, delayed switch-on or outputs generally off).
- High network security thanks to **encrypted protocols** such as HTTPs (with certificates) and SNMP v3, as well as access control (IP filter).
- Suitable for use in high-density environments with a **maximum operating temperature up to 60 °C** and a power supply of max. 3 x 63 A.
- Maximum availability thanks to various **pull-out protection** functions for the IEC 60320 outputs (IEC LOCK®, P-LOCK).
- Maximum safety and availability in the event of an overload thanks to the selection of **different overload switches** (thermal, thermal-magnetic, hydraulic-magnetic, fuses).
- Maximum safety and availability thanks to the optional integration of a **surge protection module**.



Short delivery times

- **Short delivery time** including in projects due to regional production.
- Fulfilment of specifications also in other countries thanks to **country-specific outlets** for all models (Schuko, Switzerland, UK, France).



Flexibility

- Flexible design and **maximum modifications allow** customised PDU solutions according to customer requirements
- Extremely accurate power monitoring and cost accounting for electricity consumption thanks to a **measuring accuracy of ± 1%** (V, A) in accordance with EN 50470-3 class B and EN 62053-21 class 1.



Sustainability

- Energy-efficient utilisation of consumers and compliance with legal requirements in accordance with the new **German Energy Efficiency Act** through extensive measurements of electrical values and ambient conditions.
- Cost savings thanks to **low internal energy consumption** of < 3 W.



Future viability

- Compliance with optimum operating conditions by **monitoring ambient conditions**.
- Environmental sensors (temperature, humidity and potential-free input contacts).
- **Extension of the service life** of the PDU through compatibility during further development.

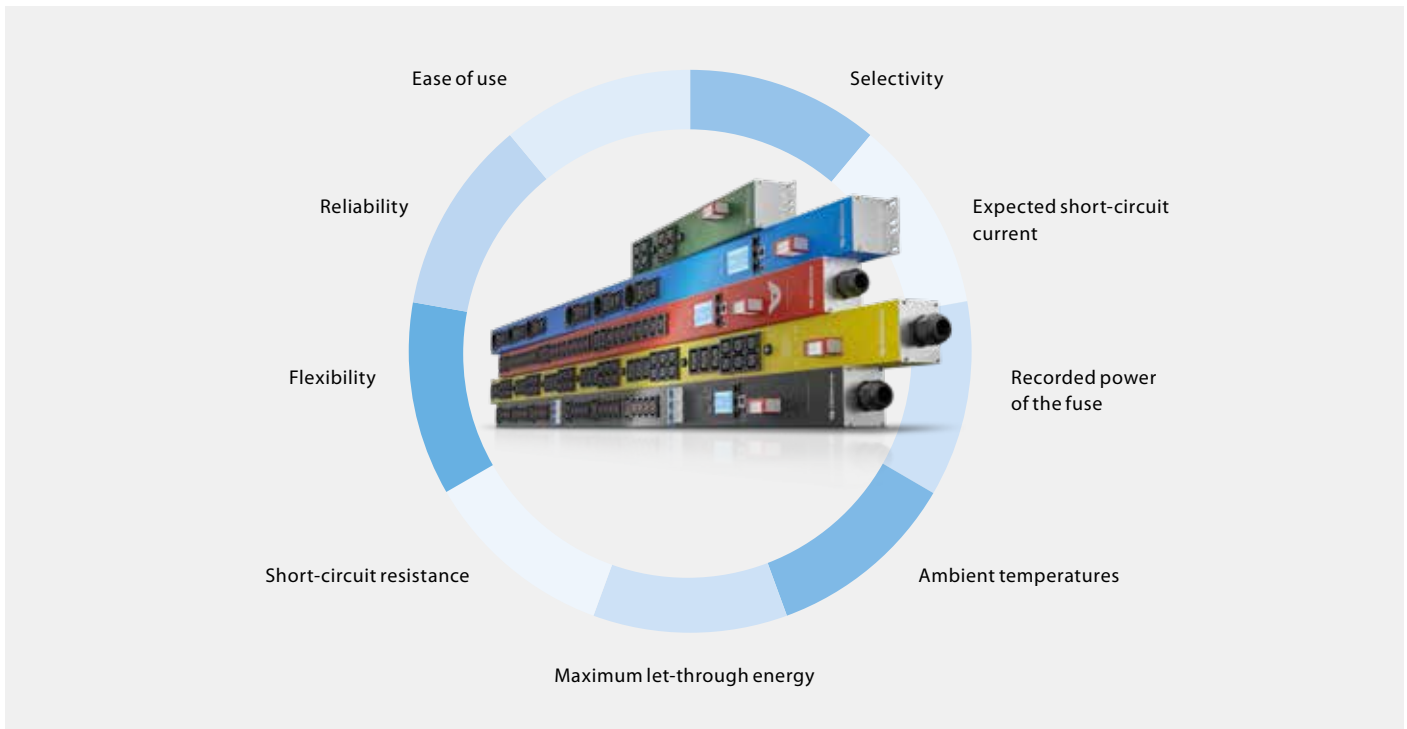


Easy installation and maintenance

- Immediate availability via the network with a very **short boot time (< 5 s)** thanks to a Real Time Operating System.
- No interruption of the power supply during DGUV V3 tests thanks to **permanent RCM type B measurement** with self-test of the module.
- Cost and time savings when installing and maintaining the PDU thanks to **mass firmware update and configuration tool**.
- Cost savings thanks to a small number of network ports by controlling **up to 100 PDUs via one IP address** and one network port.
- High availability and maximum flexibility in the network connection thanks to **various connection modes** for remote control (Ethernet, bridge, hybrid, colocation).
- Cost and time savings thanks to **complete pre-installed system** (rack, PDU, monitoring and cooling).
- Saves time on site thanks to **tool-free installation in the rack**.

Other impressive characteristics of our iFlex Rack PDU

What should your PDU do?



Overload protection

PDUs with an infeed of more than 16 A have overload protection per group, which is used to monitor the electrical load and automatically interrupt the power supply to the devices if the current exceeds 16 A per group or in the event of a short circuit, in order to prevent overloading or damage.

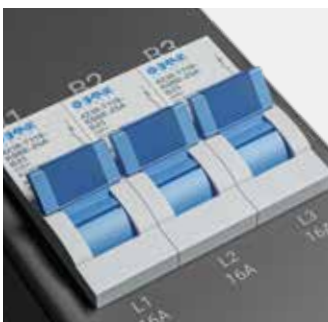
The following options are available

- Circuit breaker
(thermal-magnetic or hydraulic-magnetic)

- Thermal overload switch
- Fuse (in fuse holder)

Protection in the event of overload

If the current flow is continuously higher than 16 A per group, there is a risk of overloading the connected devices and the PDU. The tripping speed for a protective mechanism then depends on the type and specification of the respective fuse. For pure protection against overload, a thermal overload switch or a fuse (glass fuse or D-fuse/DIA-ZED switching fuse) is recommended. The thermal overload switch



From the left:
Circuit breaker
(thermal-magnetic or
hydraulic-magnetic)

Thermal overload switch

Fuse
(in fuse holder)

can be reactivated after tripping by pressing in the button that has popped out. The fuse must be replaced after tripping. An important factor when selecting the overload protection is the ambient temperature in the rack. Fuses with a thermal component are temperature-dependent and have a corresponding derating factor at higher temperatures in the rack. For ambient temperatures > 45 °C, a fuse without a thermal tripping condition is recommended.

Short-circuit protection

A short circuit occurs when there is direct contact between the phase and neutral conductor or phase and earth connection. This causes a rapid increase in the (short-circuit) current. A magnetic release is also required in the fuse. A circuit breaker then effectively protects against a short circuit.

Possible safety variants in our PDU are the thermal-magnetic or the hydraulic-magnetic circuit breaker. The thermal-magnetic one combines a bimetal release (thermal for slow overloads) and a release with magnetic coil (short-circuit protection). The hydraulic-magnetic one combines a hydraulic release (pressure increase in a fluid triggers the switch in the event of an overload) and a release with solenoid coil (short-circuit protection). The hydraulic-magnetic type is temperature-independent and is therefore particularly suitable for applications in racks with high temperatures. Another important key figure is the maximum short-circuit current, i.e. the switching capacity of the fuse. This value is determined by the upstream installation and must be clarified accordingly so that the fuse in the rack PDU is not overloaded in the event of a short circuit.

Protection against overvoltage

In accordance with the European data centre standard EN 50600 and the installation rules on site, internal surge protection must be provided in addition to external lightning protection. The surge protection is selected in accordance with IEC 62305. A distinction is made between three types: Type 1: Surge protection on the main distribution board, type 2: Surge protection on the sub-distribution board, type 3: Surge protection in/next to the critical end device.



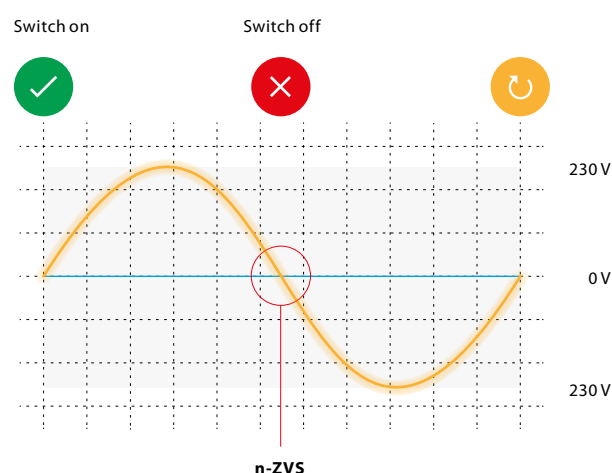
Surge protection

A type 3 surge protection can be optionally integrated into the iFlex PDU. There are single-phase and three-phase modules in a PDU, which ensure that the surge protection is positioned as close as possible to the end device. Tripping of the surge protection module is signalled in the software and the modules can be replaced without interruption after tripping.

Powerless switching

In a data centre, many consumers (servers) with electronic switching power supplies are used, some of which in turn contain large buffer capacitors. This leads to large switch-on and switch-off currents. If switching occurs at the wrong moment, the peak value of the AC voltage can lead to high currents and thus also to damage to the devices. The contacts of the switching relays of the outputs of a PDU can also be damaged.

Near-zero voltage switching (n-ZVS)

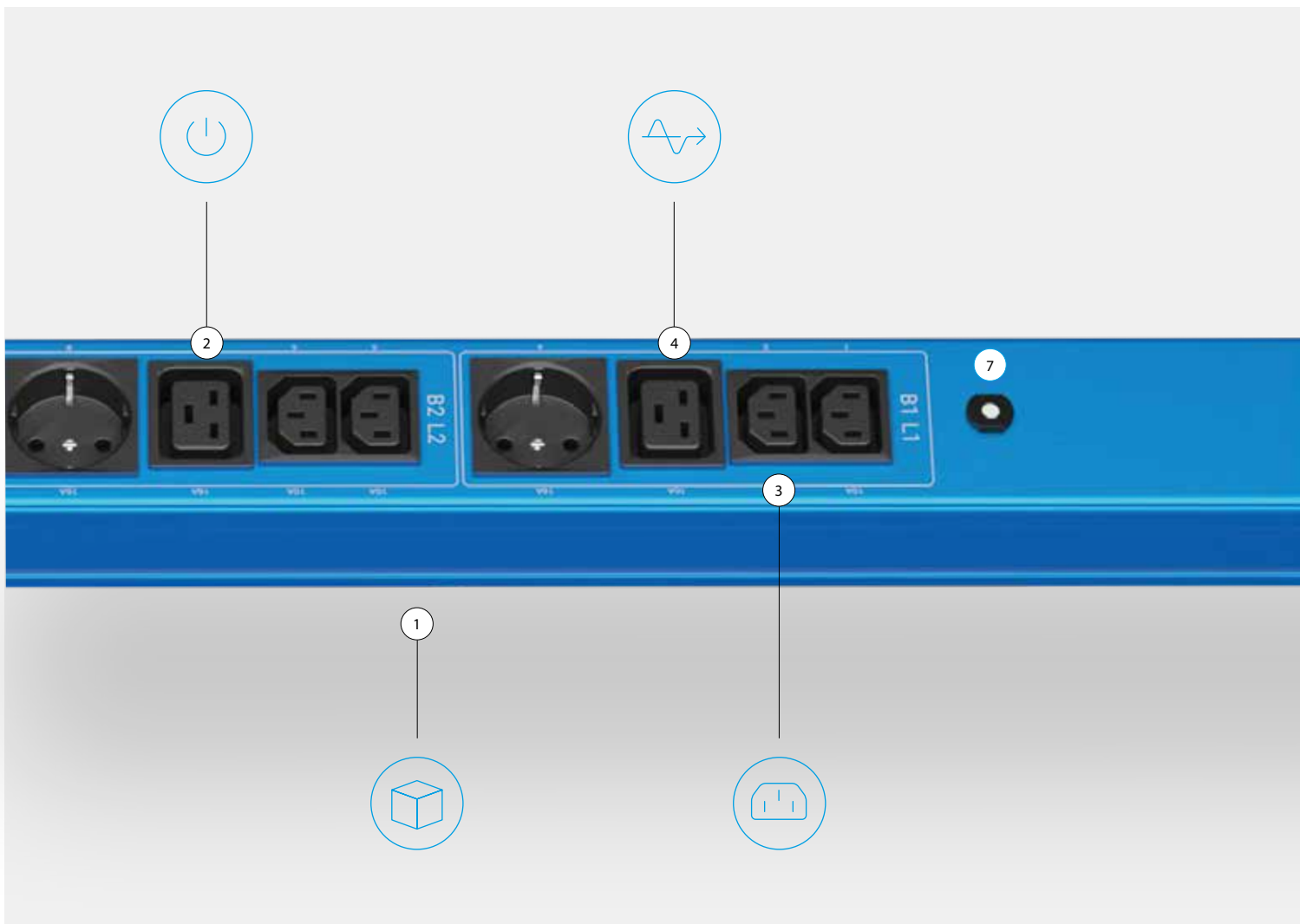


The iFlex PDUs from SCHÄFER measure the mains voltage and can thus determine the moment of zero crossing of the sinusoidal AC voltage. The switch-on and switch-off currents are also at their lowest at this time. The relays can thus always be switched in the range of the lowest power loss. This innovative technology is called near-zero voltage switching (n-ZVS). Another advantage is the improvement in EMC properties.

Maximum customisability for individual projects

Our iFlex PDU is extremely flexible and adapts to your individual requirements, especially in project cases where a standard solution is not sufficient. Thanks to our sophisticated design and flexible production, we can also supply PDUs at short notice to your exact specifications.

The individual components of the PDU can be customised to suit your needs. The following illustration shows the options available to you. The individual highlighted points clearly show where individualisation is possible.



1. Housing

- Length of the PDU
- Position of the outputs/communication board
- Various colours
- Labelling with your own logo

2. Switching the outputs

- Switchable outputs via bistable relays
- Mixture possible (basic, metered, switched)

3. Outputs

- Number of outputs
- Pull-out protection for server connection cable
- IEC-60320 outputs, GST18 outputs
- Country-specific outputs

4. Measurement

- Input, phase, group, output
- Residual current measurement
- Environmental sensors

5. Management

- Ethernet (1 network connection per PDU)
- Bridge (1 network connection for max. 100 PDUs)
- Hybrid (combination)

6. Environmental sensors

- Temperature
- Humidity
- Input contacts

7. Fuse and surge protection

- Thermal-magnetic or hydraulic-magnetic circuit breaker
- Thermal fuse with reset
- Hot swappable fuse
- Surge protection type 3 hot swappable

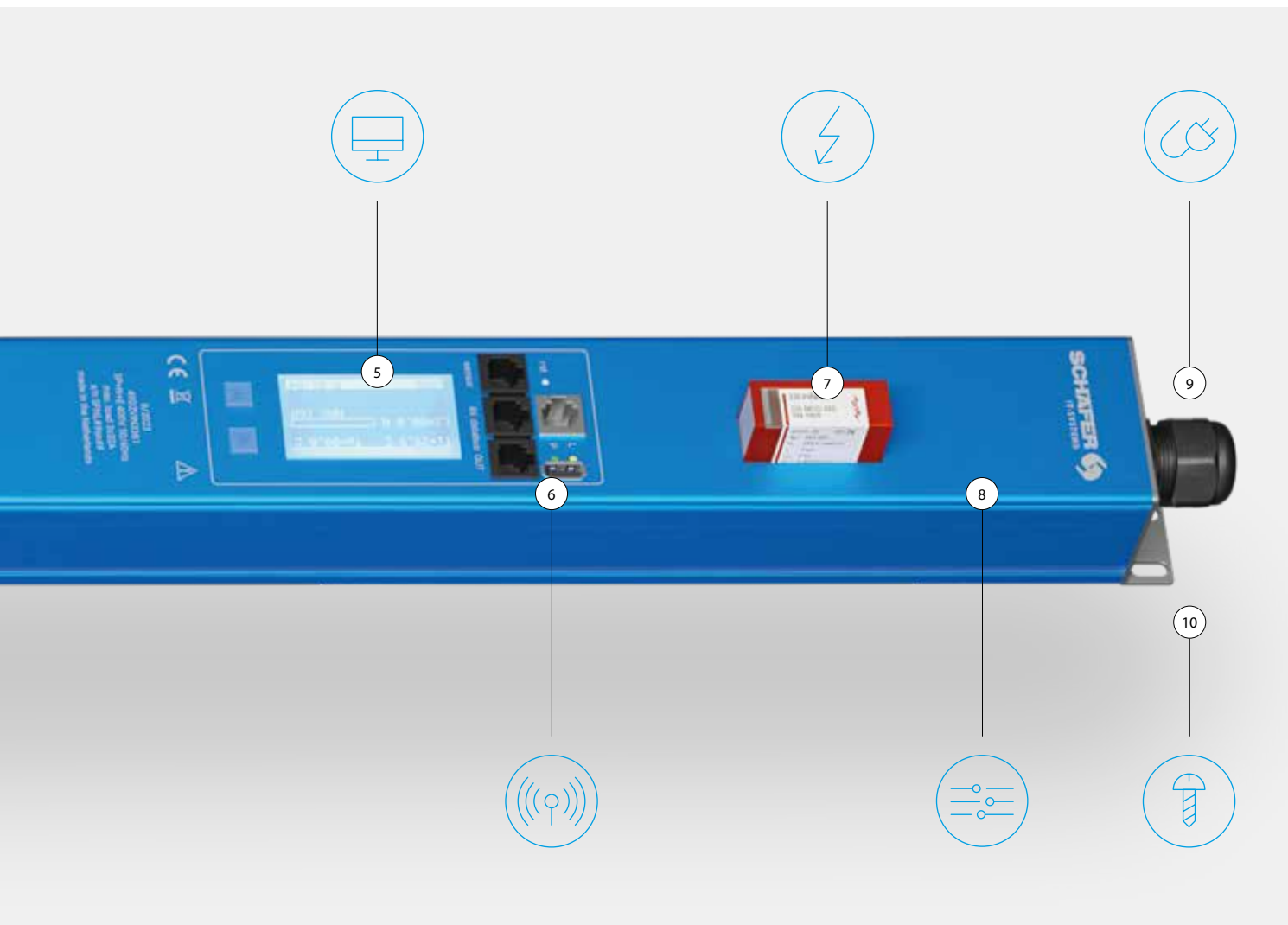
8. Residual current monitoring

9. PDU input

- Length, colour or cross-section of the input cable
- Various connectors or open end
- Cable entry at the front, rear or on the side of the outputs
- Option to connect your own cable (hardwired)

10. Mounting

- Fixed and tool-free
- Various installation angles



iFlex Smart Rack PDU for an intelligent power supply

With a large selection of high-quality Smart PDUs, we offer you the option of intelligent energy distribution. The PDUs are perfect for installation at the 19" level or for mounting next to the 19" level, whether in classic data centres or decentralised (edge) solutions.

Our standard range includes single- and three-phase Smart PDUs up to max. 44 kVA power (3 x 63 A input current) with different plug variants (see table) – for optimum customisation to your individual requirements. The Smart PDUs are available in different colours and can also be individually labelled. Our 32 A PDUs are

equipped with 16 A thermal overload switches as standard. We will be happy to help you with any special security requirements.

All our Smart PDUs have input measurement as standard. This gives you full control over your energy consumption. For even more transparency, we offer optional group measurement for monitoring the current consumption per fuse for 32 A PDUs on request. With the 3 x 63 A PDU, group measurement is also integrated as standard.

General technical data

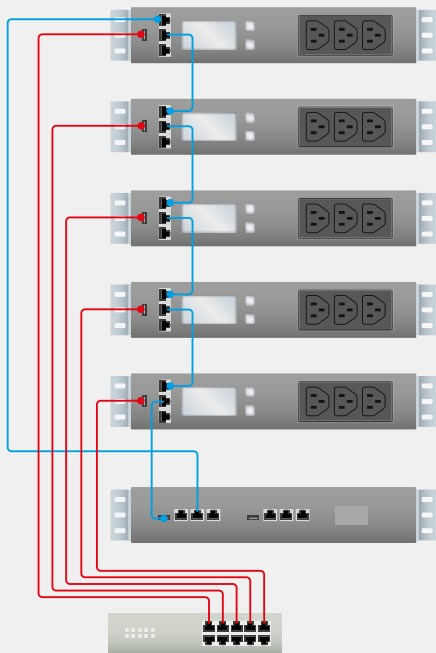
Material	
Housing	1.5 mm thick, anodised aluminium
Standard colour	RAL 9005
Cabling	Halogen-free
Dimensions	
Width	65 mm
Depth	52.6 mm
Length	See table
Connection cable	H05VV-F3G 2.5 mm ² , 3 m (for 16 A single-phase) H05VV-F5G 2.5 mm ² , 3 m (for 16 A three-phase) H05VV-F3G 6.0 mm ² , 3 m (for 32 A single-phase) H05VV-F5G 6.0 mm ² , 3 m (for 32 A three-phase)
Authorisations	
CE marking according to	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU RoHS Directive 2011/65/EU
Scope of supply	
Power strip (PDU)	1 pc.
Operating instructions	1 pc.
Mounting bracket	Available separately

Optional

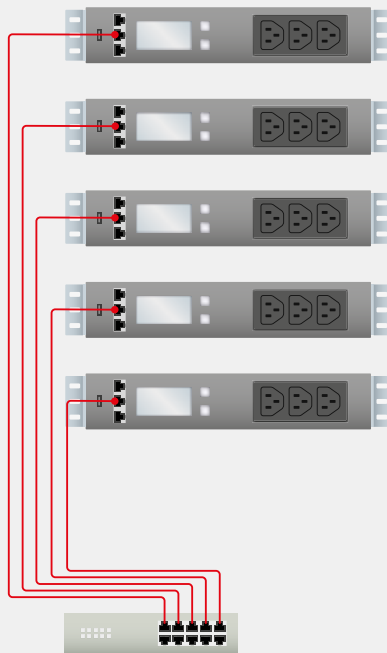
Surge protection module (single- or three-phase)	
Application class	Type 3 (DIN EN 61643-11)
Combined impact U_{OC}	6 kV (single-phase)
Combined impact $U_{OC\ total}$	16 kV (three-phase)
Protection level U_p	L/N-PE < 1.5 kV L-N < 1.25 kV (single-phase) L-N < 1 kV (three-phase)
Continuous voltage U_c	255 V AC
Rated current I_t	32 A
Function/defect display	Green/red
Remote signalling contact	Internal on controller (for Smart PDUs)

Options for integrating the PDUs into the network

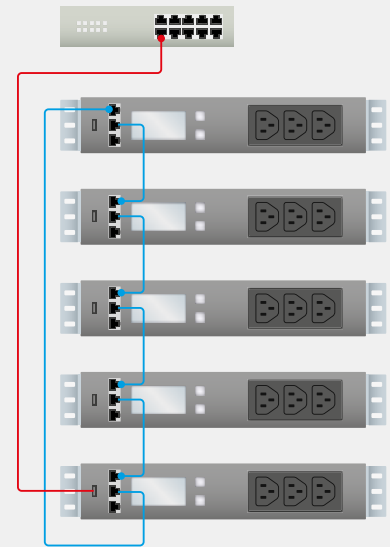
Hybrid



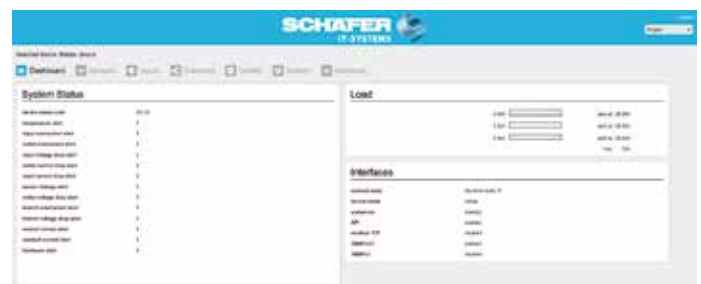
Ethernet



Bridge



— Ethernet
— Data bus



Clear presentation in the web browser

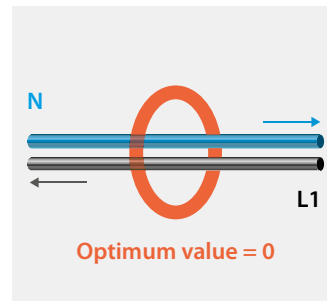
iFlex Smart Rack PDU



iFlex Smart Rack PDU

Type	Input values			Fuses	Output values			Length (mm)	Double depth	Order no.
	Nominal voltage	Rated currents	Plug type		C13	C19	CEE7/3			
Input measurement										
I-S-PDU I1-16/12-0-02_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	-	7860200
I-S-PDU I1-16/18-4-02_BK	230 V	16 A	IEC60320 C20	-	18	4	-	850	-	7860202
I-S-PDU I1-32/24-4-0T_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	24	4	-	1045	-	7860204
I-S-PDU I3-16/36-6-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	36	6	-	1380	-	7860206
I-S-PDU I3-32/36-12-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	36	12	-	1765	-	7860208
Input measurement and switchable sockets										
I-S-PDU S1-16/12-0-02_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860210
I-S-PDU S1-16/16-2-02_BK	230 V	16 A	IEC60320 C20	-	16	2	-	1035	-	7860212
I-S-PDU S1-32/20-4-0T_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1335	-	7860214
I-S-PDU S3-16/24-6-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1565	-	7860216
I-S-PDU S3-32/24-6-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1745	-	7860218
Input measurement, output measurement and switchable sockets										
I-S-PDU M1-16/12-0-02_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860220
I-S-PDU M1-16/16-2-02_BK	230 V	16 A	IEC60320 C20	-	16	2	-	1020	-	7860222
I-S-PDU M1-32/20-4-0T_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1335	-	7860224
I-S-PDU M3-16/24-6-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1565	-	7860226
I-S-PDU M3-32/24-6-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1745	-	7860228
Input and output measurement										
I-S-PDU O1-16/12-0-02_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860230
I-S-PDU O1-16/16-2-02_BK	230 V	16 A	IEC60320 C20	-	16	2	-	870	-	7860232
I-S-PDU O1-32/20-4-0T_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1135	-	7860234
I-S-PDU O3-16/24-6-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1315	-	7860236
I-S-PDU O3-32/24-6-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1495	-	7860238

The overview above shows a selection of our standard range in this area.
Please contact us if you have other requirements (sales@schaefer-it-systems.de).



iFlex Smart Rack PDU including RCM

Type	Input values			Fuses	Output values			Length (mm)	Double depth	Order no.
	Nominal voltage	Rated currents	Plug type		C13	C19	CEE7/3			
Input measurement										
I-S-PDU I1-16/12-0-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860300
I-S-PDU I1-16/18-4-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	18	4	-	900	-	7860302
I-S-PDU I1-32/24-4-OT_RCM_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	24	4	-	1095	-	7860304
I-S-PDU I3-16/36-6-ORCM_C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	36	6	-	1430	-	7860306
I-S-PDU I3-32/36-12-OT_RCM_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	36	12	-	1815	-	7860308
Input measurement and switchable sockets										
I-S-PDU S1-16/12-0-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860310
I-S-PDU S1-16/16-2-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	16	2	-	1085	-	7860312
I-S-PDU S1-32/20-4-OT_RCM_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1385	-	7860314
I-S-PDU S3-16/24-6-ORCM_C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1615	-	7860316
I-S-PDU S3-32/24-6-OT_RCM_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1795	-	7860318
Input measurement, output measurement and switchable sockets										
I-S-PDU M1-16/12-0-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860320
I-S-PDU M1-16/16-2-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	16	2	-	1070	-	7860322
I-S-PDU M1-32/20-4-OT_RCM_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1385	-	7860324
I-S-PDU M3-16/24-6-ORCM_C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1615	-	7860326
I-S-PDU M3-32/24-6-OT_RCM_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1795	-	7860328
Input and output measurement										
I-S-PDU O1-16/12-0-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	12	-	-	440 (19")	•	7860330
I-S-PDU O1-16/16-2-ORCM_2_BK	230 V	16 A	IEC60320 C20	-	16	2	-	920	-	7860332
I-S-PDU O1-32/20-4-OT_RCM_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	20	4	-	1185	-	7860334
I-S-PDU O3-16/24-6-ORCM_C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	24	6	-	1365	-	7860336
I-S-PDU O3-32/24-6-OT_RCM_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	24	6	-	1545	-	7860338

The overview above shows a selection of our standard range in this area.
Please contact us if you have other requirements (sales@schaefer-it-systems.de).

iFlex Basic Rack PDU for simple applications

Our extensive selection of high-quality basic PDUs is ideal for rack mounting, both vertically and horizontally (19" range) – whether in classic data centres or decentralised (edge) solutions.

The SCHÄFER IT-Systems standard range includes single-phase and three-phase PDUs with a maximum output of 44 kVA (3 x 63 A input current), which meet the highest standards of quality and security. We also focus on diversity in design and individuality.

Our models are not only available in different colours, but can also be individually labelled to meet your specific requirements. Our 32 A PDUs are equipped with 16 A thermal overload switches as standard. They not only provide reliable protection, but also ensure efficient energy distribution. Other fuses are available from us on request.

General technical data

Material	
Housing	1.5 mm thick, anodised aluminium
Standard colour	RAL 9005
Cabling	Halogen-free
Dimensions	
Width	65 mm
Depth	52.6 mm
Length	See table
Connection cable	H05VV-F3G 2.5 mm ² , 3 m (for 16 A single-phase) H05VV-F5G 2.5 mm ² , 3 m (for 16 A three-phase) H05VV-F3G 6.0 mm ² , 3 m (for 32 A single-phase) H05VV-F5G 6.0 mm ² , 3 m (for 32 A three-phase)
Authorisations	
CE marking according to	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU RoHS Directive 2011/65/EU
Scope of supply	
Power strip (PDU)	1 pc.
Operating instructions	1 pc.
Mounting bracket	Available separately

Optional

Surge protection module (single- or three-phase)	
Application class	Type 3 (DIN EN 61643-11)
Combined impact U_{OC}	6 kV (single-phase)
Combined impact $U_{OC\ total}$	16 kV (three-phase)
Protection level U_p	L/N-PE < 1.5 kV L-N < 1.25 kV (single-phase) L-N < 1 kV (three-phase)
Continuous voltage U_c	255 V AC
Rated current I_t	32 A
Function/defect display	Green/red
Remote signalling contact	Internal on controller (for Smart PDUs)



iFlex Basic Rack PDU

Type	Input values			Fuses	Output values			Length (mm)	Order no.
	Nominal voltage	Rated currents	Plug type		C13	C19	CEE7/3		
I-B-PDU 1-16/24-3-0C_BK	230 V	16 A	IEC60309 1ph/N/PE 6h	-	24	3	-	805	7860100
I-B-PDU 1-16/12-0-4C_BK	230 V	16 A	IEC60309 1ph/N/PE 6h	-	12	-	4	600	7860102
I-B-PDU 3-16/18-3-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	18	3	-	700	7860106
I-B-PDU 3-16/18-0-3C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	18	-	3	745	7860108
I-B-PDU 3-16/0-0-15C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	-	-	15	900	7860110
I-B-PDU 3-16/36-6-0C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	36	6	-	1250	7860112
I-B-PDU 3-16/36-6-6C_BK	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	36	6	6	1550	7860114
I-B-PDU 1-32/24-4-0T_C_BK	230 V	32 A	IEC60309 1ph/N/PE 6h	2 x 16 A	24	4	-	910	7860116
I-B-PDU 3-32/0-6-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	-	6	-	535	7860118
I-B-PDU 3-32/18-0-6T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	18	-	6	1100	7860120
I-B-PDU 3-32/0-0-24T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	-	-	24	1530	7860122
I-B-PDU 3-32/36-6-0T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	36	6	-	1425	7860124
I-B-PDU 3-32/18-6-6T_C_BK	230/400 V	3 x 32 A	IEC60309 3ph/N/PE 6h	6 x 16 A	18	6	6	1305	7860126

The overview above shows a selection of our standard range in this area.

Please contact us if you have other requirements (sales@schaefer-it-systems.de).

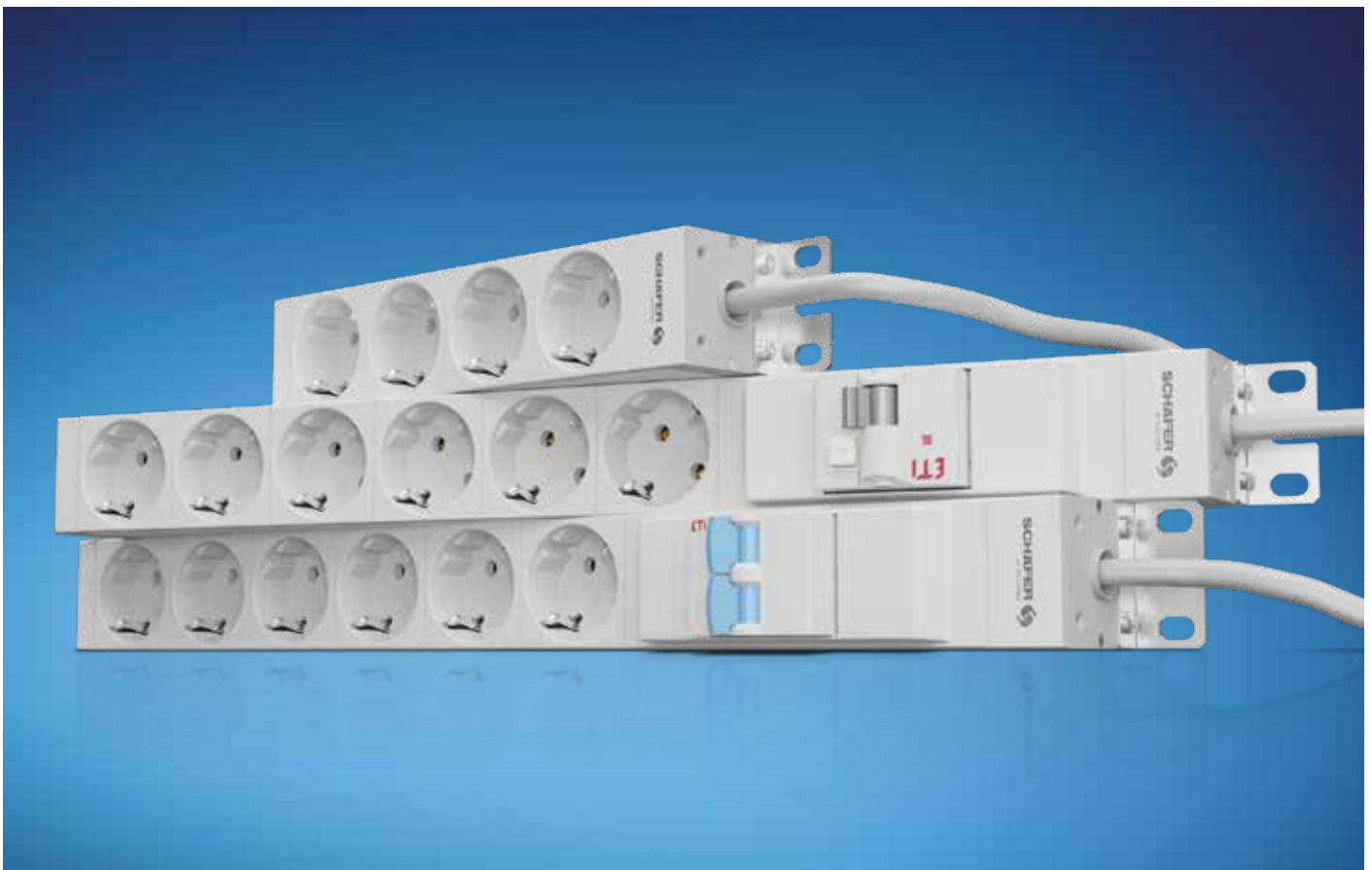
EasyNet Rack PDU – simple power distribution for flexible solutions

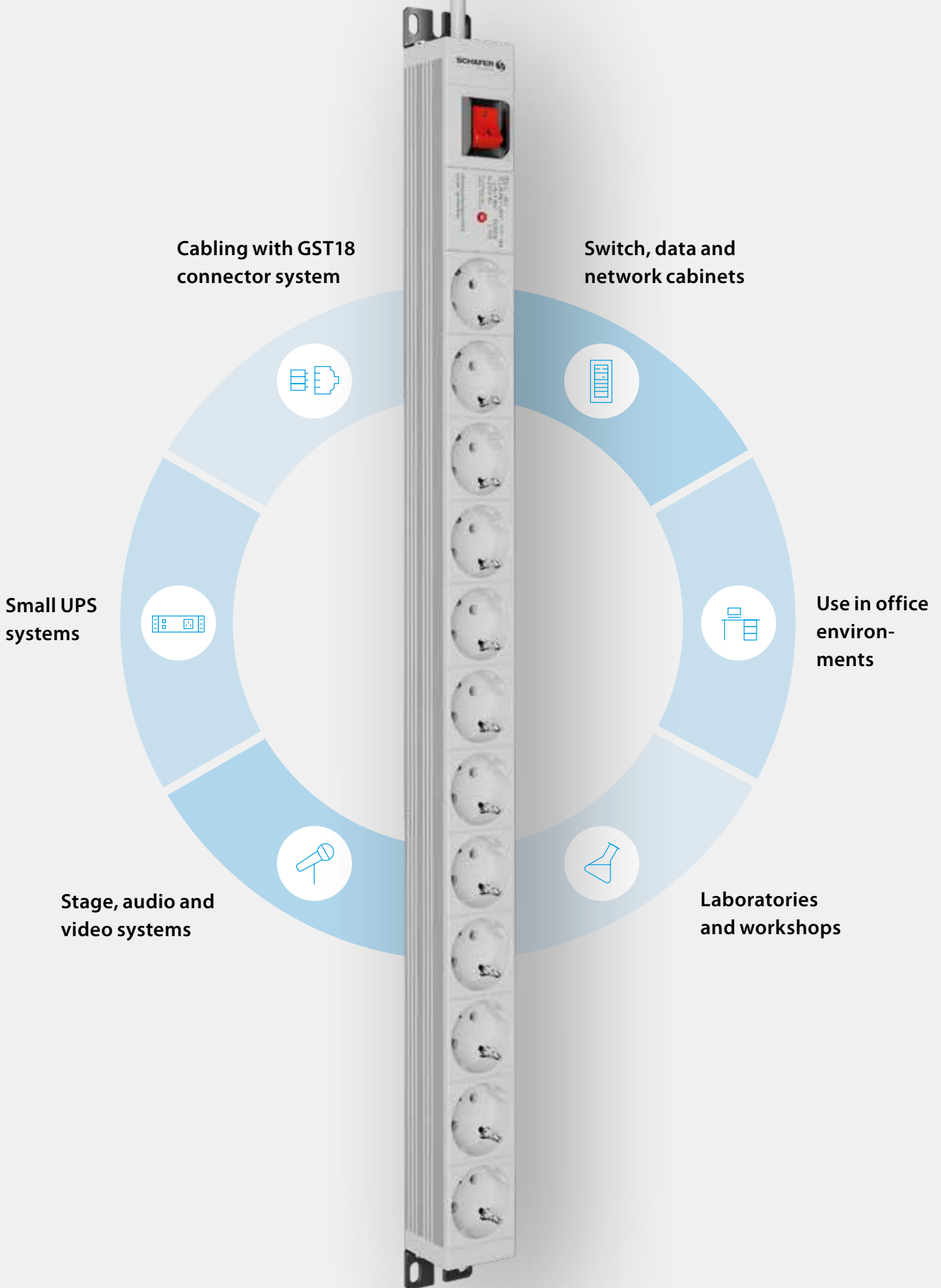
Our EasyNet PDU offers you a basic power distribution solution for various applications. Whether in IT, network technology, laboratories, industry or the SoHo (small office/home office) sector – our basic PDU series impresses with its robustness, cost-effectiveness and flexibility.

With several variants that allow both horizontal (19") and vertical installation, we offer an ideal solution for individual requirements. Our rack PDUs are not only versatile, but also available with vari-

ous accessories. These include circuit breakers, surge protection, mains filters and residual current circuit breakers.

Many products bear the VDE test mark, which stands for quality. A wide selection of standard configurations fulfils different requirements. For specific customisations, our rack PDUs can easily be configured according to your individual requirements.





Wide range of applications for various areas of use

Our EasyNet PDUs are used in a number of different areas. They offer a basic and reliable solution and impress with their flexibility.

In addition to the development for various areas of application, we have focussed on flexible combination options with

plug-in systems. Our product range also includes a network technology PDU solution that has been specially designed for flexible cabling with GST18 connector systems.





EasyNet PDUs – safe, flexible and standard-compliant












The EasyNet PDUs from SCHÄFER IT-Systems are used in many different applications. These include IT environments, laboratories, stage systems, industry and the home. Additional external

VDE test marks offer maximum electrical safety at the highest quality standard for many models.

Benefits

Simple and space-saving installation
Also supports installation in accordance with EN 62368
Use even in harsh environments
Quick installation of loads in the rack and error prevention when splitting phases
High flexibility in different countries
Simple differentiation of the feed into IT and network racks
Flexible mounting of the PDU in the rack or on the table
Low temperature development and safe operation even at high currents
Space-saving installation even in a 600 mm wide rack
Very short cable runs from the PDU to the load
Quick and easy installation on the cabinet profile

Features

	Standardised mechanical profile for an infeed of max. 3 x 16 A
	Optionally with external earthing connection
	Aluminium profile with high stability and torsional rigidity
	Different colour coding of the individual phases and optimum slot distribution across the entire cabinet
	International socket outlet systems (IEC 60320, Schuko, France, GST18)
	The PDU is available in six different colours
	The mounting brackets can be mounted in 90° increments
	Best conductivity due to full-length brass busbars
	With dimensions of 44.4 x 44 mm, one of the most compact PDUs on the market
	Up to 42 plug-in options per PDU possible
	Vertical as well as horizontal (19"/1 HU), thus reducing the costs of installation and wiring.



EasyNet Rack PDU Basic – the standard solution

Our EasyNet Rack PDU Basic in a single-phase version is available with IEC 60320 C14/C20 or Schuko plug. A wide range of 19" PDUs can be optimally integrated into network racks, such as the SCHÄFER PX rack. Our range also includes 10" PDUs and longer lengths as part of the standard range. Models with coloured sockets are also available, which are not only functional but also aesthetically pleasing.

We offer various models with different fuse and switch options for customisation to meet specific requirements. Combinations are also possible.

General technical data

Material	
Housing	1.5 mm thick, anodised aluminium
Cover	Plastic, grey
Dimensions	
Width	44 mm
Installation depth	47 mm
Length	See table
Connection cable	05VV-F3G 1.5 mm ² , 2 m
Authorisations	
CE marking in accordance with VDE mark on many models	Low Voltage Directive 2014/35/EU

Scope of supply	
Power strip (PDU)	1 pc.
Mounting bracket	2 pcs
Operating instructions	1 pc.

Optional

Surge protection module	
Application class	Type 3 (DIN EN 61643-11)
Combined impact U_{oc}	6 kV
Protection level U_p	L/N-PE < 1.5 kV L-N < 1.8 kV
Continuous voltage U_c	255 V AC
Rated current I_L	16 A
Interference suppression filter module	
Rated voltage	250 V ~ (50/60 Hz)
Rated current I_n	16 A
Rated capacity	0.47 μ F + 2 X 0.027 μ F X1Y2
Rated inductance	2 x 1 mH + 680 K Ohm
Symmetrical damping	- 53 dB (1 KHz)
Asymmetrical damping	- 56 dB (1 KHz)



EasyNet Rack PDU Basic, single-phase

Type	Input values			Output values			Length (mm)	Further features	Order no.
	Nominal voltage	Rated currents	Plug type	C13	C19	CEE7/3			
N-B-PDU1-16/0-0-8 CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	8	482.6 (19")	-	7805100
N-B-PDU1-16/12-0-0 CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	12	-	-	482.6 (19")	-	7805102
N-B-PDU1-16/10-2-0 C20	230 V	16 A	IEC60320 C20	10	2	-	482.6 (19")	-	7805104
N-B-PDU1-10/0-0-8 F C14	230 V	10 A	IEC60320 C14	-	-	8	482.6 (19")	10 A fuse	7805106
N-B-PDU1-16/0-0-8 C20	230 V	16 A	IEC60320 C20	-	-	8	482.6 (19")	-	7805108
N-B-PDU1-16/0-0-7 S CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	7	482.6 (19")	Switch	7805110
N-B-PDU1-16/0-0-4 CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	4	254 (10")	-	7805112
N-B-PDU1-10/9-0-0 C14 Inlet	230 V	10 A	IEC60320 C14 Inlet	9	-	-	482.6 (19")	C14 built-in plug	7805114
N-B-PDU1-16/7-2-0 C20 Inlet	230 V	16 A	IEC60320 C20 Inlet	7	2	-	482.6 (19")	C20 built-in plug	7805116
N-B-PDU1-10/12-0-0 C14	230 V	10 A	IEC60320 C14	12	-	-	482.6 (19")	-	7805118
N-B-PDU1-16/0-0-6 RCD CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	6	482.6 (19")	Input-side RCD (30 mA)	7805120
N-B-PDU1-16/0-0-7 ÜSS CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	7	482.6 (19")	Surge protection	7805122
N-B-PDU1-16/0-0-7 ÜSS S CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	7	482.6 (19")	Surge protection and switch	7805124
N-B-PDU1-16/0-0-6 ÜSSEF CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	6	482.6 (19")	Surge protection with mains filter	7805126
N-B-PDU1-16/0-0-5 ÜSSEF S CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	5	482.6 (19")	Surge protection with mains filter and switch	7805128
N-B-PDU1-16/0-0-6 LS CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	6	482.6 (19")	Circuit breaker B16 A	7805130
N-B-PDU1-16/0-0-12 CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	12	671.4	-	7805132
N-B-PDU1-16/0-0-12 ÜSS S CEE7/7	230 V	16 A	CEE 7/7 (Schuko)	-	-	12	n.a.	Surge protection and switch	7805134

EasyNet Rack PDU Basic – single- or three-phase

The single- or three-phase EasyNet Rack PDU Basic offers versatile connection options, including IEC 60320 C14/C20 or Schuko plugs. The product range includes an extensive selection of vertical PDUs that are ideal for installation in network racks next to the 19" level, such as the SCHÄFER PX rack. Our standard range

includes both single-phase and three-phase PDUs equipped with CEE plugs in accordance with IEC 60309.

For more variety, models with coloured sockets are available, which can be used to identify different phases.

General technical data

Material	
Housing	1.5 mm thick, anodised aluminium
Cover	Plastic, grey
Dimensions	
Width	44 mm
Installation depth	47 mm
Length	Different, depending on type
Connection cable	05VV-F3G 2.5 mm ² , 3 m (at 16 A) 05VV-F3G 4 mm ² , 3 m (at 32 A)
Authorisations	
CE marking according to	Low Voltage Directive 2014/35/EU
Scope of supply	
Power strip (PDU)	1 pc.
Mounting bracket	2 pcs
Operating instructions	1 pc.

Optional

Surge protection module	
Application class	Type 3 (DIN EN 61643-11)
Combined impact U_{oc}	6 kV
Protection level U_p	L/N-PE < 1.5 kV L-N < 1.8 kV
Continuous voltage U_c	255 V AC
Rated current I_L	16 A
Interference suppression filter module	
Rated voltage	250 V ~ (50/60 Hz)
Rated current I_n	16 A
Rated capacity	0.47 µF + 2 X 0.027 µF X1Y2
Rated inductance	2 x 1 mH + 680 K Ohm
Symmetrical damping	- 53 dB (1 KHz)
Asymmetrical damping	- 56 dB (1 KHz)



EasyNet Rack PDU Basic, single- or three-phase

Type	Input values			Output values			Further features	Order no.
	Nominal voltage	Rated currents	Plug type	C13	C19	CEE7/3		
N-B-PDU1-16/24-3-0 CEE	230 V	16 A	IEC60309 1ph/N/PE 6h	24	3	-	-	7805200
N-B-PDU1-16/16-0-4 CEE	230 V	16 A	IEC60309 1ph/N/PE 6h	16	-	4	-	7805202
N-B-PDU3-16/0-6-0 CEE	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	6	-	-	7805204
N-B-PDU3-16/24-3-0 CEE	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	24	3	-	-	7805206
N-B-PDU3-16/0-0-15 CEE	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	-	-	15	-	7805210
N-B-PDU3-16/36-6-0 CEE	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	36	6	-	-	7805212
N-B-PDU3-16/24-6-6 CEE	230/400 V	3 x 16 A	IEC60309 3ph/N/PE 6h	24	6	6	-	7805214

High-quality accessories for powerful rack PDUs

Sensors

The iFlex Smart PDUs have an RJ12 sensor port.

This can be used to connect either a temperature/humidity combination sensor or two potential-free contacts.



Temperature/humidity sensor

- Combination sensor for measuring ambient temperature and humidity
- Connection via the RJ12 sensor port of an iFlex Smart PDU
- Can be attached to the cabinet frame
- Adjustable alarm thresholds
- Alerting via SNMP trap and in the web interface

Measuring properties

Temperature	
Measuring range	-40 °C–125 °C
Response time	5 s
Accuracy	± 0.3 °C
Long-term drift	< 0.02 °C per year
Humidity	
Measuring range	0–100 % RH
Response time	8 s
Accuracy	± 2 % typical ± 3 % max. (20–80 % RH)
Long-term drift	< 0.25 % per year



Digital input

- Connection of two potential-free (relay) outputs of other devices (e.g. door contacts, signalling contacts of cooling units, etc.)



- Use of a commercially available standard cable possible
 - Cable end PDU: RJ12 plug
 - Cable end contact: Device-specific (e.g. open end for connection to terminal)

Designation	Order no.
iQdata temperature/humidity sensor for Smart PDU	7869999

Inline meter modules

To retrofit a basic PDU with an input-side measurement, inline meter modules are available. These are plugged in between the power supply and the basic PDU. The modules are already equipped with the appropriate couplings and plugs for this purpose. The inline meter modules are available in two basic versions:



1. For horizontal or vertical mounting (e.g. in the raised floor or next to the 19" level); recognisable feature: Cable entry and exit from the side)



2. For mounting in the 19" level (recognisable feature: Cable entry and exit on the back). Both versions are also available to match all available PDUs with the following electrical connection values: Single-phase 16 A/32 A, three-phase 16 A/32 A.

Simply contact us to find the right solution for your requirements.

Fastening material

The iFlex PDUs from SCHÄFER IT-Systems can be mounted in the rack with a mounting bracket next to the 19" level. This is available in two versions:

For mounting one PDU and for mounting two PDUs arranged in parallel. Two brackets (top and bottom of the PDU) are always required.



Mounting bracket

- All iFlex PDUs that are not installed in the 19" level have plastic knobs on the rear of the housing
- Two brackets (top and bottom) are screwed to the rack frame or to the outside of the 19" profile
- One (with 7782740) or two (with 7782840) vertical iFlex PDUs can be attached to the mounting knobs



Designation	Order no.
IS-1 Smart PDU 1 mounting kit	7782740
IS-1 Smart PDU 2 mounting kit	7782840

Customised services for your rack PDUs

Our comprehensive rack PDU services offer you a worry-free solution for power distribution in your server rooms. At SCHÄFER IT-Systems, we attach great importance to customised assistance in order to actively support your operations and ensure that they run smoothly.

Our service includes the integration of the PDU into the rack directly at the factory or on site, depending on your requirements. You receive a customised, fully ready-to-use solution that is time-saving and effective.

We support you from A to Z with the configuration and integration of the PDU into your network.

We thus guarantee smooth commissioning for trouble-free operation. For maximum investment protection, we also offer you the option of extending the warranty to three, four or five years. With customised maintenance contracts, you can also ensure the long-term performance of your PDU. The SCHÄFER IT-Systems support team is available twenty-four hours a day, seven days a week, with a response time of just eight hours.



Benefits



Installation of your PDU in the factory or on site



Configuration of the PDU and integration into your network



Warranty up to five years



24/7 support with short response times


Personalised advice


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SCHÄFER WERKE – expertise in steel processing

Within the SCHÄFER GROUP, **SCHÄFER WERKE** specialises in the development, manufacture and sale of thin sheet and stainless steel products. Steady growth and the consistent expansion of the product range are indicators for the successful orientation of the company. The particular success of the business areas lies in the ability to be implemented quickly, while at the same time offering a high degree of individuality in the design of the products.

The exceptional speed of realisation in the manufacture of sheet steel products is the result of the close cooperation between all production plants and **EMW's** own Steel Service Centre, which has a storage capacity of over 300,000 tonnes of thin sheet and can provide the coils, slit strips, blanks and circular blanks required for further processing at short notice and in high quality.

SCHÄFER Perforated Metal offers a wide range of high-quality perforated sheet solutions for all industries and applications, available at short notice.

SCHÄFER Container Systems is one of the world's leading suppliers of reusable stainless steel beverage containers for beer, wine and

soft drinks as well as IBCs and special containers for liquids, solids and granulates.

SCHÄFER IT-Systems offers both standardised and customised network and server cabinets as well as data centre and water-cooled server cabinet solutions, which are planned, designed and manufactured in-house based on the company's comprehensive and forward-looking expertise.

SCHÄFER Office and Operating Equipment develops and implements practical and functional products for flexible operating equipment systems – from material cabinets to small parts cabinets, from drawer cabinets to workshop cabinets, from changing room cabinets to workbenches, from office cabinets to desks.

The extensive manufacturing expertise, the large number of technical systems and the outstanding qualifications of the employees also make SCHÄFER the ideal partner for contract manufacturing. Our customers experience measurable time and cost benefits when working with SCHÄFER.





EMW Steel Service Centre



SCHÄFER Perforated Metal



SCHÄFER Container Systems



SCHÄFER Container Systems



SCHÄFER IT-Systems



SCHÄFER Office and Operating Equipment

Our locations



Head office and plant, Neunkirchen, Germany



Betzdorf plant, Germany



Treuen plant, Germany



OKS Iserlohn plant, Germany



Ledeč nad Sázavou plant, Czech Republic

Active worldwide with diversified business areas

At our state-of-the-art locations in Germany, the Czech Republic and the USA, over 1100 employees contribute to the success of the SCHÄFER WERKE Group every day. As a group of companies with over 85 years of experience in steel processing and headquartered in Neunkirchen in the Siegerland region, we are active worldwide with the diversified business units EMW Steel Service Centre, SCHÄFER Office and Operating Equipment, SCHÄFER Container Systems IBC, SCHÄFER Container Systems KEG, SCHÄFER IT-Systems and SCHÄFER Perforated Metal. Entrepreneurial spirit, market orientation and diversification have been the driving forces of our family business since its foundation. Outstanding product quality incorporating the latest technologies and close cooperation with our business partners are the basis of our success.



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