

Knürr PowerTrans2®

Power Distribution Rack

Features

- The Knürr PowerTrans2 has a modular design with a versatile plug-in units that can be used as required.
- **Plug and Play:**
Only the main feed must be installed by a qualified electrician.
- The plug-in units can be inserted during operation; there are no downtimes.
- **Elementary model:**
Power distribution unit without metering.
- **Metered version:**
Power distribution unit offers extensive metering functions with a high level of accuracy (up to $\pm 1\%$).
- **Highest power density:**
up to max. 346 kVA.

The Knürr PowerTrans2 forms the interface between the low-voltage power supply and rack PDUs as well as further components for supplying servers and other IT devices.

Rack basics: connecting the Knürr DCM rack and the existing PowerTrans2 19" plug-in units simply involves slotting the elements into a free slot and securing them. The rack is then immediately connected to the power supply. The power is distributed via the individual slot-in units, avoiding installation within the building.



PowerTrans2: 19" slot-in



Input Power

- Max. 250 A per phase.
- 1 ph. or 3 ph. feed.
- Max. 2 feeds per rack.



Modularity

- Output distributors can be installed as modules during running operation.



Output Distributor

- 230/400V – 32A via IEC 60309 socket.
- 230/400V – 16A via GST 18 socket.
- 230V – 32A via IEC 60309 socket.
- 230V – 16A via GST18 socket.

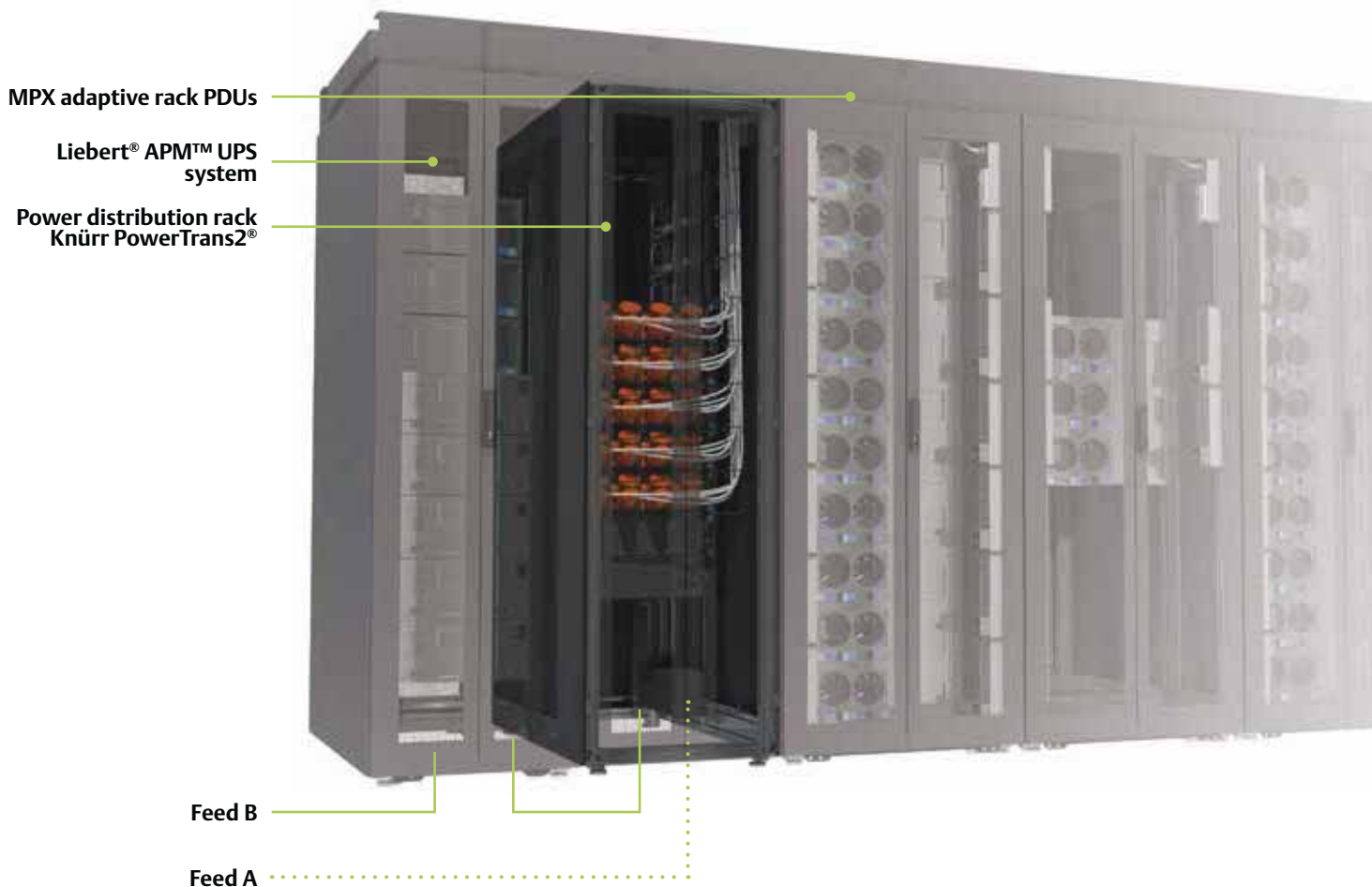


Monitoring

- Input level.

Knürr PowerTrans2®

Power distribution unit between
Liebert® APM™ UPS system and MPX rack PDUs



Benefits

- Two feeds (A + B) available for each rack.
- Optimum power distribution from the Liebert® APM™ UPS system to the MPX rack PDUs.
- Each phase input from the Knürr PowerTrans2® is monitored and evaluated.
- The PowerTrans2 Basic can be populated with a maximum of 10 plug-in units, while the metered version can be populated with a maximum of 8 plug-in units.
- Minimal footprint due to a rack width of 600 mm.



Knürr PowerTrans2

Knürr PowerTrans2® 19" Power Distribution Rack

■ Elementary and Monitored type

- Feed of 2 separate 3-phase 400V mains, L1, L2, L3, N, PE.
- Each with a 250 A circuit breaker in the input.
- Distribution to the individual plugs via busbars and contact-safe plug-in connections.
- Up to 8 (Monitored) / 9 (Elementary) slot-in units where A feed and B feed are possible.

■ Monitored type

- Provides the following phase-input data: voltage, current, effective power, consumption and frequency.
- Power alarm functions for the individual phases and their operating status are also supported.

■ Technical data Interfaces

- RJ-45 LAN port (10/100 MBit) – for connecting to local network (LAN) via an Ethernet cable.
- Serial interface: RS485.
- Remote management: Onboard Web Interface, SNMPv1,2,3, SSH and Syslog can be integrated into Nform & Trellis as well as Nagios or other management software programs.

■ Material / Finish

- Basic rack, extruded aluminum, polished.
- Corner piece, die-cast aluminum, polished.
- Perforated front door.
- Rear door, double, closed.
- Covers, zinc-passivated sheet steel, powder-coated texture.

■ Color

- RAL 7021 dark-gray.

■ Standard inclusion

- 1 x rack with covers, front door, rear door.
- 1 x set of safe-contact busbars, for A feed and B feed.
- 2 x circuit breakers, max. 250 A.
- 18 x (Monitored type) / 20 x (Elementary type) power supply plugs for the slot-in units wired on the busbars.
- 1 x 19" PowerTrans2 metering slot-in unit (Monitored type).
- 2 x 19" T-slot extrusions.
- 20 x chassis runners.
- 1 x complete earthing set.
- 1 x complete locking set.

W	H	D	U	h	d	kg	Model	Cable entry	Order No.	UP
600	2000	1000	42				Elementary	Below	03.014.600.8.004	1
600	2000	1100	42				Elementary	Below	03.014.600.8.005	1
600	2000	1200	42				Elementary	Below	03.014.600.8.006	1
600	2200	1000	47				Elementary	Below	03.014.600.8.010	1
600	2200	1100	47				Elementary	Below	03.014.600.8.011	1
600	2200	1200	47				Elementary	Below	03.014.600.8.012	1
600	2000	1000	42				Monitored	Below	03.014.601.8.004	1
600	2000	1100	42				Monitored	Below	03.014.601.8.005	1
600	2000	1200	42				Monitored	Below	03.014.601.8.006	1
600	2200	1000	47				Monitored	Below	03.014.601.8.010	1
600	2200	1100	47				Monitored	Below	03.014.601.8.011	1
600	2200	1200	47				Monitored	Below	03.014.601.8.012	1
600	2000	1000	42				Elementary	Above	03.014.602.8.004	1
600	2000	1100	42				Elementary	Above	03.014.602.8.005	1
600	2000	1200	42				Elementary	Above	03.014.602.8.006	1
600	2200	1000	47				Elementary	Above	03.014.602.8.010	1
600	2200	1100	47				Elementary	Above	03.014.602.8.011	1
600	2200	1200	47				Elementary	Above	03.014.602.8.012	1
600	2000	1000	42				Monitored	Above	03.014.603.8.004	1
600	2000	1100	42				Monitored	Above	03.014.603.8.005	1
600	2000	1200	42				Monitored	Above	03.014.603.8.006	1
600	2200	1000	47				Monitored	Above	03.014.603.8.010	1
600	2200	1100	47				Monitored	Above	03.014.603.8.011	1
600	2200	1200	47				Monitored	Above	03.014.603.8.012	1



PowerTrans2

Knürr PowerTrans2® 19" Slot-in Power Distributor

- Power distributor slot-in for PowerTrans2 rack.
- Also functions without PowerTrans2 rack if used with a suitable connection cable.
- 19" slot-in housing.
- Width 19".
- Height: 3 U.
- Depth: 480 mm.
- Color: RAL 7021 dark-gray.
- 2 separate 3-phase inputs with max. 63 A phase current (feed A + feed B).
- Outputs are shown in the table below.
- Backups: 1-pole (for single-phase) or 3-pole (for 3-phase). 2-pole or 4-pole backups available upon request.

Inputs Phase tap per feed	Outputs		Order No.
	Feed A	Feed B	
L1-N, L2-N, L3-N	6 x 230Vac 16 A GST 18i3	6 x 230Vac 16 A GST 18i3	03.014.011.8.002
L1-N, L2-N	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	03.014.011.8.005
L2-N, L3-N	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	03.014.011.8.006
L3-N, L1-N	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	2 x 230Vac 32 A IEC60309 1ph/N/PE 6h	03.014.011.8.007
L1-N, L2-N, L3-N	3 x 230/400Vac 3 x 16 A GST18i5	3 x 230/400Vac 3 x 16 A GST18i5	03.014.012.8.002
L1-N, L2-N, L3-N	2 x 230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	2 x 230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	03.014.012.8.003

Knürr PowerTrans2® Connection Cable

- Connection cable between 19" power distributor slot-in and rack PDUs

Length	Input connector	Output socket	Order No.
5000	230Vac 16 A GST 18i3	230Vac 16 A IEC60320 C19	03.014.013.9.001
5000	230Vac 16 A GST 18i3	230Vac 16 A IEC60309 1ph/N/PE 6h	03.014.013.9.003
5000	230/400Vac 3 x 16 A GST 18i5	230/400Vac 3 x 16 A IEC60309 3ph/N/PE 6h	03.014.014.9.001
5000	230Vac 32 A IEC60309 1ph/N/PE 6h	230Vac 32 A IEC60309 1ph/N/PE 6h	On request
5000	230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	03.014.014.9.003
10000	230Vac 16 A GST 18i3	230Vac 16 A IEC60320 C19	03.014.013.9.002
10000	230Vac 16 A GST 18i3	230Vac 16 A IEC60309 1ph/N/PE 6h	03.014.013.9.004
10000	230/400Vac 3 x 16 A GST 18i5	230/400Vac 3 x 16 A IEC60309 3ph/N/PE 6h	03.014.014.9.002
10000	230Vac 32 A IEC60309 1ph/N/PE 6h	230Vac 32 A IEC60309 1ph/N/PE 6h	On request
10000	230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	230/400Vac 3 x 32 A IEC60309 3ph/N/PE 6h	03.014.014.9.004