

Uninterruptible power supply - UPS-CP-4.5KVA/240AC



2800277

<https://www.phoenixcontact.com/us/products/2800277>

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Single-phase UPS device in dual converter technology, according to three-stage classification code VFI-SS-111. Floor-mounted appliance, either for 19" rack mounting, 90° rotary LCD control panel, slot for SNMP card.



Your advantages

- Comprehensive accessories for function extension
- Long battery life thanks to ripple-free charging
- Double conversion technology for maximum voltage quality
- Class VFI-SS-111 single-phase UPS (according to IEC 62040-3)
- Supports a variety of operating systems
- Hot-swappable battery replacement on the front
- Use as rack (19") or tower device with rotatable control panel
- Mains-independent output voltage

Commercial Data

Item number	2800277
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	CMUR15
Catalog Page	Page 245 (C-6-2013)
GTIN	4046356537759
Weight per Piece (including packing)	22,000 g
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Country of origin	CN

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Technical Data

Input data

Input voltage range	280 V AC 160 V AC 160 ... 280 V AC
Nominal current	max. 21.9 A
AC frequency range	50 Hz ... 60 Hz ± 5 Hz (automatic recognition)
Power factor (cos phi)	0.99 (with linear load)
Non-linear distortion	< 6 % (at full load)
Residual current I_{PE}	≤ 3.5 mA
Energy absorption, asymmetrical	300 J
Typical switch-over time	typ. 0 ms
Power supply connector	1 x L, N, PE

Output data

Output voltage range	230 V AC ± 1 % (200/208/220/230/240 V AC adjustable)
Nominal current	max. 19.57 A
AC frequency range	50 / 60 Hz (automatic recognition)
Frequency range AC (battery mode)	50 / 60 Hz $\pm 0,1$ %
Crest factor	3.1
Current distortion (THD)	< 6 % (non-linear load)
Efficiency (100/75/50/25% load)	90/88/88/85% - mains operation

Energy storage

Network management	Yes
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Electrical properties

Nominal frequency f_N	50 Hz ± 5 Hz (60 Hz)
Nominal current I_N	max. 21.9 A

Product properties

Type	19" rack/fixed housing
Product type	Uninterruptible power supply, AC
MTBF (IEC 61709, SN 29500)	> 200000 h

Dimensions

Width	483.00 mm
Height	89.00 mm
Height unit	2 U
Depth	680.00 mm

Material specifications

Color	black
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Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 40 °C
Ambient temperature (storage/transport)	0 °C ... 45 °C
Altitude	≤ 1000 m
Permissible humidity (operation)	0 % ... 90 % (non-condensing)
Noise level	50

Standards and regulations

Standards/specifications	EN 62040-1-1
Standards/specifications	EN 62040-2
Standards/specifications	EN 62040-3
Standards/specifications	IEC 60950-1
Standards/specifications	EN 61000-3-2
Standards/specifications	EN 61000-3-3

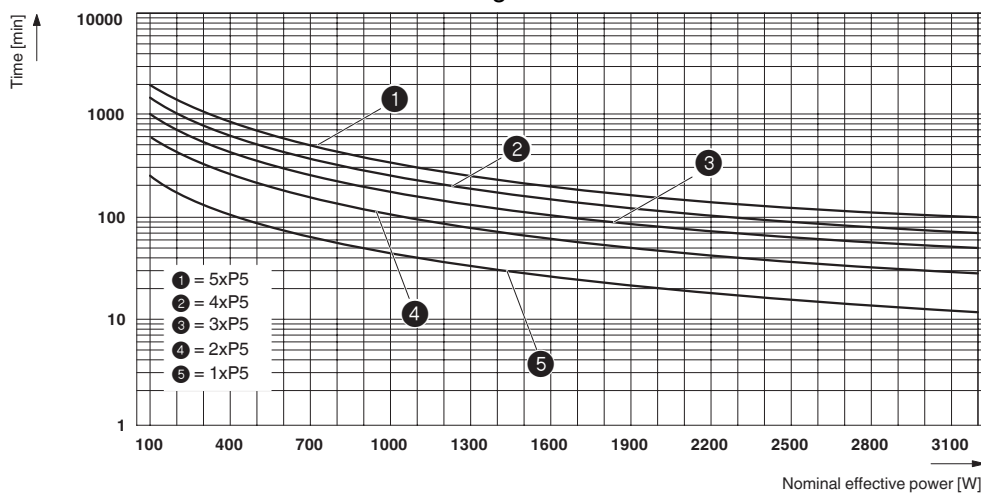
Notes

Utilization restriction

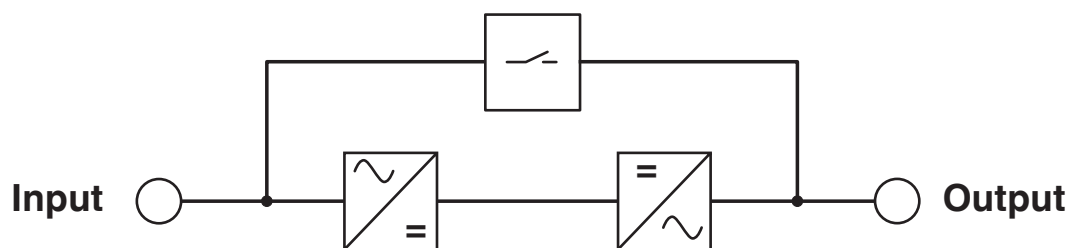
EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Drawings

Diagram



Circuit diagram



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Classifications

ECLASS

ECLASS-9.0	27049201
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Mandatory Accessories

Energy storage

Energy storage - UPS-CP-BAT-4.5/6KVA-P5 - 2800285

<https://www.phoenixcontact.com/us/products/2800285>

Energy storage device for extending the bridging time of the UPS device.



Accessories

Interface card

Interface card - UPS-SNMP-CARD - 2800289

<https://www.phoenixcontact.com/us/products/2800289>

SNMP interface card for UPS devices, RJ45 network connection. Including two licenses for the associated RCCMD Client software.



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Interface card

Interface card - UPS-SNMP-CARD E - 2800290

<https://www.phoenixcontact.com/us/products/2800290>

SNMP interface card for UPS devices, RJ45 network connection, MODBUS and AUX. Including two licenses for the associated RCCMD Client software.



Relay card

Relay card - UPS-6REL - 2800287

<https://www.phoenixcontact.com/us/products/2800287>

6-way relay card for 1 kVA to 6 kVA UPS devices for the provision of various status messages regarding the UPS.



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Bypass module

Bypass module - UPS-CP-BP-4.5/6KVA - 2800292

<https://www.phoenixcontact.com/us/products/2800292>

Bypass module with manual bypass for 4.5 kVA and 6 kVA UPS devices.



Parallel/redundancy module

Parallel/redundancy module - UPS-CP-PU-240AC/32A-4.5/6KV - 2800297

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Module for parallel/redundancy operation and external bypass with manual bypass for 4.5 kVA and 6 kVA UPS devices, up to 32 A.



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Parallel/redundancy module

Parallel/redundancy module - UPS-CP-PU-240AC/63A-4.5/6KV - 2800298

<https://www.phoenixcontact.com/us/products/2800298>



Module for parallel/redundancy operation and external bypass with manual bypass for 4.5 kVA and 6 kVA UPS devices, up to 63 A.

Socket strip

Socket strip - UPS-CP-MS-5X16A/9X10A-IEC - 2800296

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Socket strips for 19" rack installation with 5 IEC 16 A slots and 9 IEC 10 A slots.

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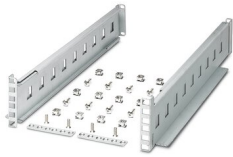
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DIN rail

DIN rail - UPS-CP-19"MR - 2800288

<https://www.phoenixcontact.com/us/products/2800288>

Mounting rail set, can be extended from 52 cm to 88 cm, for mounting UPS devices and battery modules in 19" racks and cabinets.



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