

POWER2GRID

The Hybrid Inverter of the Future



E-Mobility



Drive System



Energy Storage Systems



Power- and Garden Tools



Industrial



Medical

TECHNICAL SPECIFICATIONS

AC backup plug (with optional BMZ POWER GridSwitch)

Rated power 1~/3~ (at 230 V, 50 Hz) 10,000 W

Max. AC apparent power VA 11,000

Rated AC voltage 400 V

AC mains frequency 50 Hz

Protective devices

Input-side isolation point (PV-DC) •

Earth fault monitoring / grid monitoring • / •

DC reverse polarity protection / AC short-circuit protection / galvanically isolated • / • / —

Universal current sensitive residual current monitoring unit •

Protection class I

Overvoltage category grid / battery / PV III / II / II

General data

Dimensions (W / H / D) 700 x 500 x 181 mm

Weight 28 kg

Operating temperature range 0 °C to 60 °C

Noise emission (typical) 31 dB

Self-consumption (standby) < 3 W

Topology / cooling concept Transformerless / temperature-controlled fan, variable speed, internal (dust-protected)

Protection class IP65

Maximum permissible value for relative humidity (non-condensing) 95%

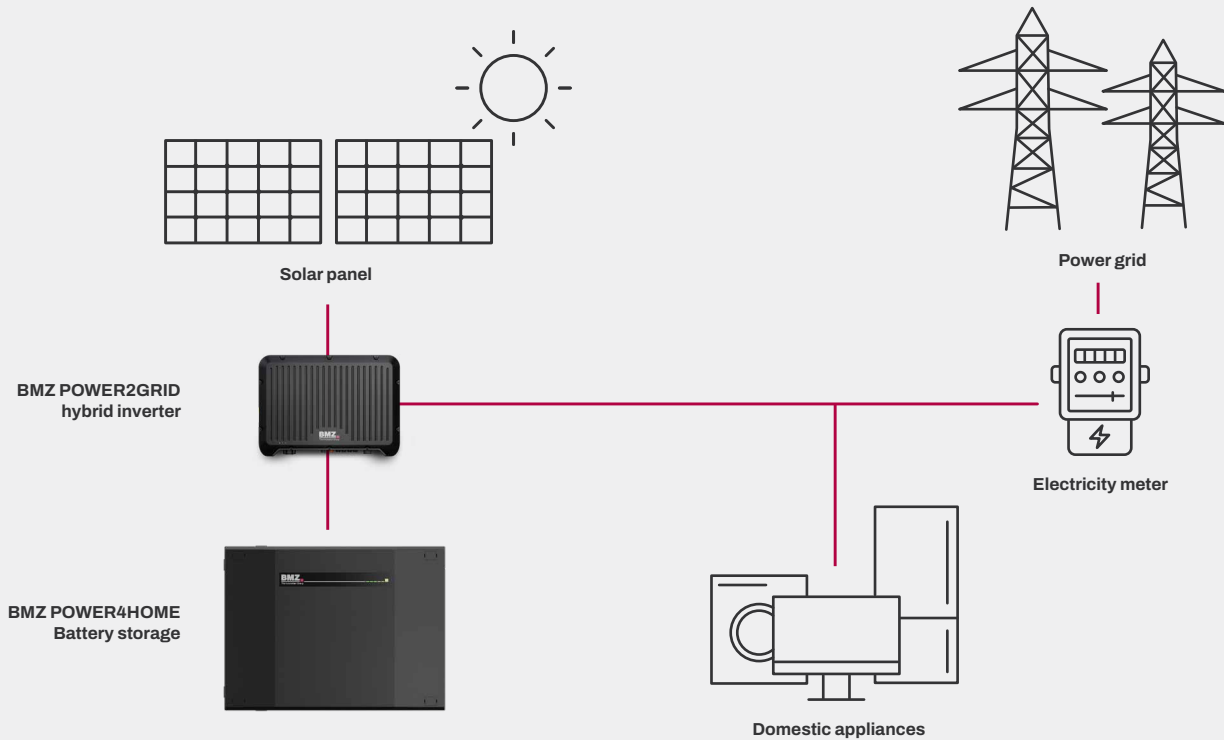
Connections, interfaces WLAN and LAN connection, 3x RS-485

INVERTER

Efficient conversion of direct current

Operation on the grid with self-consumption optimization

with 3rd party electricity meter



TECHNICAL DATA

10 kW PV and battery inverter

- For all BMZ HV battery systems
- Perfect for BMZ **POWER4HOME**

High flexibility

- 2 MPPT with wide voltage range from 85–850 V
- 1 battery connection with wide voltage range from 85 to 550 V
- Suitable for indoor and outdoor use
- Optional backup operation with BMZ **POWER GridSwitch**

Easy to use

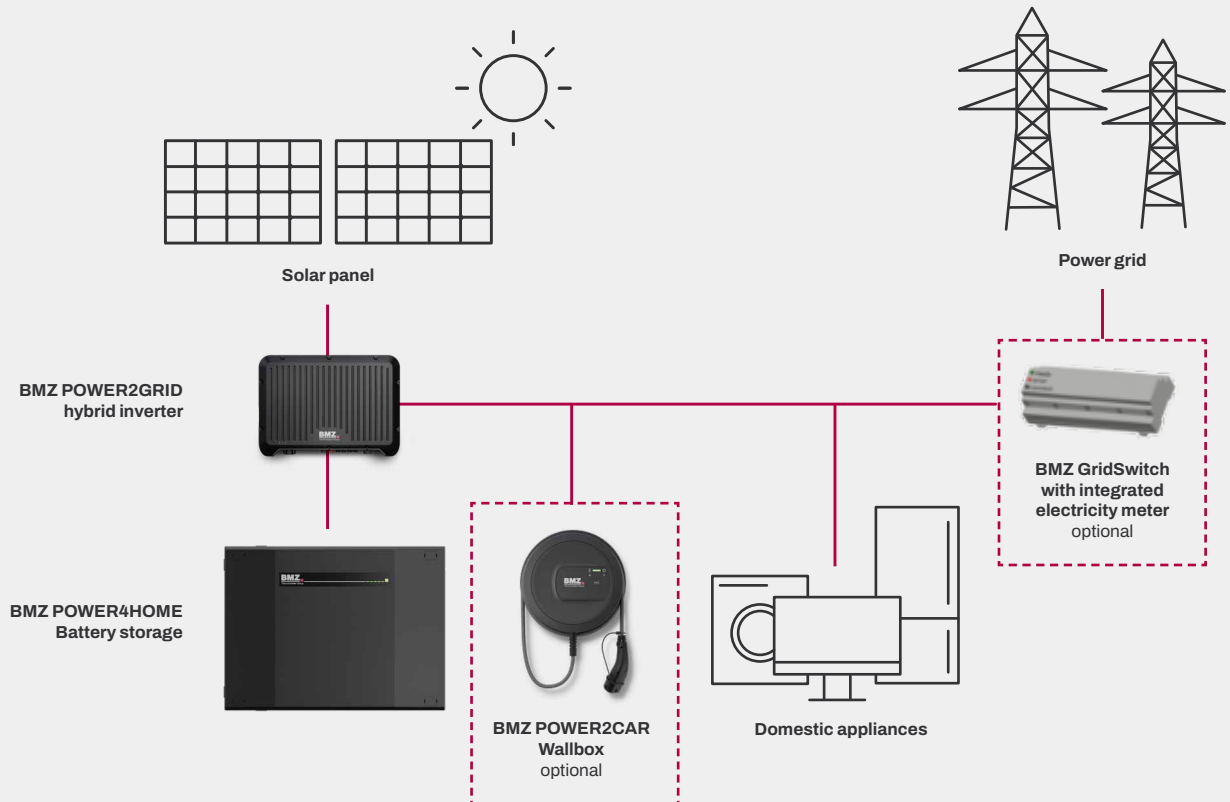
- Weights only 28 kg
- Installation by one person
- Hybrid inverter is set up via app in just 5 minutes
- Including BMZ monitoring on the Internet and/or app

Low noise

- Internal temperature controlled fan

Power supply independent of the power grid

Operation on the grid with self-consumption optimization and dynamic PV surplus charging



TECHNICAL SPECIFICATIONS



Input (PV-DC)

Max. generator power	12,000 Wp (sum of PV 1 and 2)
Max. input voltage	1,000 V
MPP voltage range	85–850 V
Max. input current input A / input B	15A / 15A
Max. short circuit current input A / input B	18 A / 18 A
Number of independent MPP inputs / strings per MPP input	2 / A:1; B:1

Battery connection (BAT-DC)

Battery type	all BMZ high-voltage systems
Voltage range	85–550 V
Max. charging current / max. discharging current	25 A / 25 A
Max. charging power / max. discharging power	10,300W / 10,000W

AC connection to public power grid

Rated power (at 230 V, 50 Hz)	10,000 W
Max. AC apparent power	10,000 VA
Rated AC voltage	400 V, 3L + N + PE
Rated grid frequency / rated grid voltage	50 Hz / 230 V
Rated output current	3 x 14.5 A
Max. output current	3 x 16 A
Power factor at rated power / displacement factor adjustable	1 / 0.8 overexcited to 0.8 underexcited
Feed-in phases / connection phases	3 / 3

Efficiency

Max. efficiency / European efficiency	97.5% / 97.1%
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Any questions?

Contact us, we will be pleased to advise you.

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