



Article number: 231 447
Description: Inverter 1600 Pro

Inverters

Battery voltage	U_{DC}	24 V
Input voltage range:	U_{DC}	19 – 32 V
Continuous power output at 25 °C:	P_{AC}	1600 VA
Power output for 30 mins. at 25 °C:	P_{AC}	2200 VA
Power output for 5 secs. at 25 °C	P_{AC}	4800 VA
Sinus output voltage	U_{AC}	230 V
Output frequency	f_{AC}	50 Hz
Distortion factor:	k	< 2 %
Load recognition:	P_L	1 – 25 W
cos φ of load:		0.1 – 1
Short circuit proof:		Yes
Overload protection:		Yes
Overheat protection:		Yes
Reverse battery protection:		Yes
Max. efficiency:	η_{max}	95 %
Power consumption in OFF/Stand-by/ON	P_{DC}	0.8/0.9/7.0 W

Battery charger

Effective load current:	I_{DC}	0 – 37 A
Max. input voltage:	U_{AC}	265 V
Min. input voltage:	U_{AC}	150 – 230 V
Frequency range:	f_{AC}	45 – 65 Hz

Battery monitoring

Absorption load duration:		0 – 4 hrs.
End of charge voltage:	U_{DC}	28.8 V
Floating charge:	U_{DC}	27.2 V
Gassing, every 25 cycles:	U_{DC}	31.2 V
Final discharge voltage:	U_{DC}	21.6 V

General

Size (W x H x D):	249 x 400 x 167 mm
Weight:	14 kg
Protection class:	IP20
Operating temperature range:	-20 °C ... +50 °C
Ventilation:	≥ 45 °C

Inverter: Inverter 1600 Pro

The **Inverter 1600 Pro** combines 3 functions in one device.

- An inverter for converting a battery voltage into a sinusoidal AC voltage suitable for powering all mains-operated electrical devices.
- A battery charger.
- An automatic transfer system for uninterrupted switching between DC and AC supply.

Quality features, certificates

- High efficiency across entire power range
- High overload capacity thanks to combination of toroidal core transformer and MOS-FET power transistors
- Digital control with microprocessor
- Real Sinus output voltage and therefore suitable for all AC electrical devices
- Rapid switching system between generator/mains operation and battery operation
- 4-stage battery charger (I/U/ U_0 /gassing with output factor correction)
- Full protection against overload, overheating, short circuit and reverse polarity
- Efficient, adjustable load characteristic switching
- Low noise operation
- CE mark