AC Master 24/500 IEC (230 V)



Product code: 28020502



Reliable AC power for recreational and semi-professional use

These affordable sine wave inverters convert 12 or 24 V battery voltage into reliable 230 V 50/60 Hz or 120 V 50/60 Hz grid power, making them ideal for recreational and semi-professional applications. The AC Master series is easy to install and delivers full output, even under the most demanding conditions. The pure sine wave technology provides an outstanding power quality, ensuring the correct functioning of sensitive equipment. The usage of high frequency switching technology eliminates any annoying humming and buzzing sounds.

Representing complete value for money, these ruggedly built inverters provide essential home comforts when you're far from the nearest grid connection.

Features

- · Pure sine wave technology protects sensitive equipment.
- · Delivers full output at high peak power under the most demanding conditions.
- · Automatic power saving system for extended runtime.
- · Easy to install: convenient IEC socket with IEC plug included.
- \cdot Reliable and safe operation; protected against over-temperature, overload, short circuit, high or low battery voltage.

Applications

Both recreational and semi-professional use, where grid power varies or is unavailable. Applications include lighting, appliances, electric cooking and power tools. For (mobile) applications in your home, office or service vehicle, or during your holidays.



Specifications

General specifications

Output voltage 230 V - 50 Hz (± 0.1%)

Output waveformtrue sineNominal battery voltage24 VRecommended battery capacity>= 50 AhContinuous power at 25 °C / 77 °F, cos phi 1500 W

Continuous power at 40 °C / 104 °F, cos phi 1 400 W

Peak load (5 s) 800 W

AC connection universal

Galvanic isolation yes

Efficiency 91 %

Display/read-out LED display

 Alarms
 4 alarm modes

 Dimensions, hxwxd
 210 x 130 x 60 mm

 8.3 x 5.1 x 2.4 inch

Weight 1.22 kg 2.7 lb

Compliance CE, E-mark, ABYC A-31

Technical specifications

Technology high frequency, input & output fully isolated

Low battery voltage, switches off at 20 V, ± 0.5 V 22 V, ± 0.5 V Low battery voltage, switches on at High battery voltage, switches off at 32 V, ± 0.5 V High battery voltage, switches on at 29 V, ± 0.5 V Max. ripple on DC (battery) 10 % RMS 19 A Input current (nominal load) 0.29 A - 7 W No-load power consumption (ON mode) 0.16 A - 4 W No-load power consumption (energy saving mode)

Minimal DC fuse (slow blow) 40 A

Minimal cable size 1.5 metre DC cable delivered as standard Harmonic distortion typical < 6 %

Cos phi all power factors allowed

Temperature range (ambient temp.) $-20 \,^{\circ}\text{C}$ to $40 \,^{\circ}\text{C}$, derating power > $40 \,^{\circ}\text{C}$ -4 to $104 \,^{\circ}\text{F}$

Cooling natural/forced
Switch off at (auto recover after cooling down) 50 °C
122 °F

Protection degree IP23, vertical wall mounting

Protections over temperature, over load, short circuit, high/low battery voltage

MasterBus compatible

