# AC Master 12/500 IEC (230 V)



Product code: 28010502



## 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 voltage12 VRecommended battery capacity>= 100 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 90 %

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

Approvals CE, E-mark, ABYC A-31

### **Technical specifications**

Technology high frequency, input & output fully isolated

Low battery voltage, switches off at 10 V,  $\pm$  0.5 V Low battery voltage, switches on at 11 V,  $\pm$  0.5 V High battery voltage, switches off at 16 V,  $\pm$  0.5 V High battery voltage, switches on at 14.5 V,  $\pm$  0.5 V Max. ripple on DC (battery) 10 % RMS Input current (nominal load) 37.5 A No-load power consumption (ON mode) 0.58 A - 7 W

No-load power consumption (on mode)

No-load power consumption (energy saving mode)

O.33 A - 4 W

Minimal DC fuse (slow blow)

2x 40 A

Minimal DC fuse (slow blow)

2x 40 A

Minimal cable size

1.5 mtr DC cable delivered as standard

Harmonic distortion typical < 6 %
Cos phi all power factors allowed

Temperature range (ambient temp.) -20 °C to 40 °C, derating power > 40 °C

-4 to 104 °F
Cooling natural/forced
Switch off at (auto recover after cooling down) 50 °C

Protection degree IP23, vertical wall mounting

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

122 °F

MasterBus compatible

