AC Master 12/500 IEC (230 V)



Product code: 28010502



Mastervolt sine wave inverters have proven themselves under the most extreme conditions for over 25 years. Our inverter family consists of AC Master, Mass Sine and Mass Sine Ultra models, ranging from 300 watt up to 40 kW. The AC Master is ideal for small and medium-sized applications, while Mass Sine and the advanced Mass Sine Ultra inverters are mainly intended for larger systems and for professional purposes.

AC Master series: 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.
- · 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

Output waveform

Nominal battery voltage

Recommended battery capacity

Continuous power at 25 °C / 77 °F, cos phi 1 $\,$

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

Peak load (5 s)

AC connection

Efficiency

Display/read-out

Dimensions, hxwxd

Weight

Approvals

230 V - 50 Hz (± 0.1%)

true sine

12 V

>= 100 Ah

500 W

400 W

+00 VV

W 008

universal

90 %

LED display

210 x 130 x 60 mm

8.3 x 5.1 x 2.4 inch

1.22 kg 2.7 lb

CE, E-mark, ABYC A-31

Technical specifications

Technology

Low battery voltage, switches off at

Low battery voltage, switches on at

High battery voltage, switches off at

High battery voltage, switches on at

Max. ripple on DC (battery)

Input current (nominal load)
No-load power consumption (ON mode)

No-load power consumption (energy saving mode)

Minimal DC fuse (slow blow)

Minimal cable size

Harmonic distortion typical

Cos phi

Temperature range (ambient temp.)

Cooling

Switch off at (auto recover after cooling down)

Protection degree

Protections

MasterBus compatible

high frequency, input & output fully isolated

10 V, ± 0.5 V

11 V, ± 0.5 V

16 V, \pm 0.5 V

14.5 V, ± 0.5 V

10 % RMS

37.5 A

0.58 A - 7 W 0.33 A - 4 W

2x 40 A

1.5 mtr DC cable delivered as standard

< 6 %

all power factors allowed

-20 °C to 60 °C, derating power > 40 °C

-4 to 140 °F

natural/forced

50 °C

122 °F

IP23, vertical wall mounting

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

no

