AC Master 12/3500 (230 V)



Product code: 28013500



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.
- · Compact and lightweight design, saving valuable installation time.
- · Reliable and safe operation; protected against over-temperature, overload, short circuit, high or low battery voltage.
- · Variable speed fan for quiet operation at low power.
- · Optional remote control for instant switch off of the inverter and all connected equipment (not available for the 300 and 500 W models).
- · Convenient plug connection for all models, 2500/3500 Watt models also hard wired.

In addition, the 2500/3500 Watt models offer:

- · Combine 2 up to 15 units to obtain high power or 3-phase systems.
- · Integrated transfer system, switches automatically between AC power sources.

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 230/240 V - 50/60 Hz (selectable)

Output waveformtrue sineNominal battery voltage12 VRecommended battery capacity>= 360 AhContinuous power at 25 °C / 77 °F, cos phi 13500 WContinuous power at 40 °C / 104 °F, cos phi 13500 W

Peak load (3 s) < 4500 W Peak load (< 0.2 s) < 6000 W

AC connection hardwired + plug connection EU (Schuko), or with NZ/AU plug (code

28413500)

22.0 lb

Efficiency 90 %

Parallel configuration yes, up to 15 units
3-Phase configuration yes, 3 units

Display/read-out LED indication: battery voltage, load level, status

Alarms potential free alarm contact

Dimensions, hxwxd 283 x 496 x 128 mm 11.1 x 19.5 x 5.0 inch

Weight 10 kg

Approvals CE, E-mark, RCM

Technical specifications

Technology high frequency, input & output fully isolated

Low battery voltage, switches off at 10.5 V
Low battery voltage, switches on at 12.5 V
High battery voltage, switches off at 16.5 V
High battery voltage, switches on at 14.5 V
Input current (nominal load) 350 A
No-load power consumption (ON mode) < 3.6 A
No-load power consumption (energy saving mode) < 1.4 A

Minimal DC fuse (slow blow)

400 A

Minimal cable size

120 mm²

Harmonic distortion typical < 3 %

Cos phi all power factors allowed

Transfer system integrated, automatic (inverter to grid: 8~10 ms, grid to inverter: 16~50 ms). Not for parallel & 3-phase operation (external transfer system

possible)

Temperature range (ambient temp.) -20 °C to 60 °C, derating power > 35 °C

-4 to 140 °F

Cooling temperature and load controlled fan Protection degree IP21, horizontal wall mounting

Protections over-temperature, overload, short circuit, high/low voltage, reverse

polarity (fuse)

MasterBus compatible

