AC Master 12/500 (230V)



Product code: 28010500



Mastervolt offers a complete range of inverters from 300 watt to 40 kwatt in AC Master, Mass Sine and Mass Sine Ultra models. 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. Mastervolt offers inverters for 230V/50Hz as well as 120V/60Hz (American voltage).

AC Master sine wave inverters

With a compact, lightweight and silent AC Master you can easily convert the voltage of a 12 or 24 V battery into 230 V/50 Hz AC current the same way you would at home or work. From microwave to hairdryer, DVD player to electrical tools, laptop to flatscreen; the pure sine wave preserves your equipment without disruption, humming or lines on the TV screen, while ensuring a longer lifespan of all connected equipment and saving you the costs of all those adapters.



Specifications

General specifications

Output voltage (± 5%) 230 V - 50 Hz (± 0.1%)

Output waveform true sine

Nominal battery voltage 12 V

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

Continuous power at 25 °C / 77 °F, cos phi 1 500 W

Peak load 800 W

AC connection universal

Efficiency 90 %

Display/read-out LED display
Recommended battery capacity >= 100 Ah

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

Harmonic distortion typical

Technology HF switch mode

Low battery voltage, switches off at $10 \text{ V}, \pm 0.5 \text{ V}$ Low battery voltage, switches on at $11 \text{ V}, \pm 0.5 \text{ V}$ High battery voltage, switches off at $16 \text{ V}, \pm 0.5 \text{ V}$ High battery voltage, switches on at $14.5 \text{ V}, \pm 0.5 \text{ V}$ 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 (energy saving mode) 0.33 A - 4 W

Min. DC fuse (slow blow) 80 A
Min. cable size included

Cos phi all power factors allowed

Temperature range (ambient temp.) $0 \, ^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$, derating power >= 40 $^{\circ}\text{C}$

32 to 104 °F

Switch off at (auto recover after cooling down) 50 °C

122 °F

< 6%

Sound level 53 dBA at 1 mtr

Protection degree IP23

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

voltage

Cooling natural/forced



