Mass Sine 12/1200 (230V/50Hz)



Product code: 24011200



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).

No humming with HF technology

Our use of high-frequency switch technology means you can say goodbye to humming transformers and hello to efficiency. Mastervolt inverters are also small and lightweight to ensure easy installation.

High peak power during start up

The Mastervolt sine wave inverter can provide up to 200 % surge capacity to equipment that requires extra power during start up.

Efficient use of batteries

A high efficiency when inverting and an automatic economy mode when there is no consumption gives you longer use of your batteries.

Simple and safe to connect

The inverters feature robust connection technology, internal in the larger models and a plug & play socket with cable for the smaller models.

MasterBus compatible

Every Mass Sine inverter can be easily connected to a MasterBus network with only one cable and one connection. You can also choose central, local or remote monitoring, configuration and control of your system.



Specifications

General specifications

Output voltage (\pm 5%) 230 V - 50 Hz (\pm 0.01 Hz)

Output waveform true sine

Nominal battery voltage 12 V

P30 power at 40 °C, cos phi 1 1200 W

Continuous power at 40 °C / 104 °F, cos phi 1 1000 W

Peak load 2400 W

AC connection internal

Efficiency 92 %
Display/read-out LED displ

Display/read-out LED display
Recommended battery capacity > 150 Ah

Dimensions, hxwxd 340 x 261 x 130 mm

13.4 x 10.3 x 5.1 inch

Weight 8 kg

17.6 lb

Approvals CE, E-mark, ABYC A-31

Technical specifications

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 $15.5 \text{ V}, \pm 0.5 \text{ V}$ High battery voltage, switches on at $14.5 \text{ V}, \pm 0.5 \text{ V}$ Max. ripple on DC (battery) 5% RMS Input current (nominal load) 110 A

No-load power consumption (ON mode) 450 mA - 5 W No-load power consumption (energy saving mode) 43 mA - 0.5 W

Min. DC fuse (slow blow) 150 A

Min. cable size 50 mm²

Harmonic distortion typical < 5%

Cos phi all power factors allowed

Transfer system the Masterswitch and Systemswitch can be connected to all

sine wave inverters

Temperature range (ambient temp.) -25 °C to 80 °C, derating > 40 °C

-13 to 176 °F

Sound level 48 dBA at 1 mtr

Protection degree IP23

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

voltage

Cooling natural/forced



MasterBus compatible

yes, using a MasterBus Inverter Interface or AC power analyser

