

Mass Sine 12/2000 (230V/50Hz)



Product code: 24012000

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 (± 0.01 Hz)
Output waveform	true sine
Nominal battery voltage	12 V
P30 power at 40 °C, cos phi 1	2000 W
Continuous power at 40 °C / 104 °F, cos phi 1	1800 W
Peak load	4000 W
AC connection	internal
Efficiency	92 %
Display/read-out	LED display
Recommended battery capacity	> 200 Ah
Dimensions, hwxwd	420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch
Weight	14.6 kg 32.2 lb
Approvals	CE, E-mark, ABYC A-31

Technical specifications

Technology	HF switch mode
Low battery voltage, switches off at	10 V, ± 0.5 V
Low battery voltage, switches on at	11 V, ± 0.5 V
High battery voltage, switches off at	15.5 V, ± 0.5 V
High battery voltage, switches on at	14.5 V, ± 0.5 V
Max. ripple on DC (battery)	5% RMS
Input current (nominal load)	183 A
No-load power consumption (ON mode)	480 mA - 6 W
No-load power consumption (energy saving mode)	50 mA - 0.6 W
Min. DC fuse (slow blow)	250 A
Min. cable size	70 mm ²
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