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



Product code: 24012000



#### For the toughest tasks

Even under the most extreme conditions the products from the Mass series operate faultlessly, giving you round-the-clock output when necessary. With an MTBF of 180,000 hours at full capacity and 24/7 use, the Mass products are ideal for the toughest tasks and any situation that requires a reliable power supply.

Mastervolt's Mass Sine inverters have been proving their value in the most extreme conditions for 30 years.

### Optimal flexibility in system design

Choosing an independent sine wave inverter allows you complete freedom of choice of battery charging equipment. You can freely adapt the rating of these chargers, depending on the desired charge time. In case you want to use renewable energy sources, you may want to choose an MPPT solar charge regulator.

#### **High Efficiency**

The high efficiency and automatic economy mode are designed to allow digital clocks to work properly and ensure you many more hours of operation from your batteries. The application of high-frequency technology prevents any annoying humming and zooming sounds, while the high peak capacity ensures that the high inrush current required for electrical tools, for example, is seamlessly produced.

#### **Clear Indicators**

The Mass Sine features easy controls on the device itself. As inverters are often built in, we also supply an effective remote control panel, the C4-RI. In addition, the Mass Sine can be controlled via its intuitive display, the EasyView 5, thanks to the integration of MasterBus communication using a MasterBus Inverter Interface or AC Power Analyser.

#### **Easy and safe connections**

The Mass Sine inverters provide robust and professional connections for fast and safe installation.

#### **Features**

- · For heavy duty work in professional and semiprofessional applications.
- · Full capacity at temperatures up to 40 °C.
- $\cdot$   $\;$  Pure sine wave output prevents failures and damage to connected sensitive equipment.
- · High peak capacity for the seamless switching on of complex and heavy loads.
- · MasterBus compatible.
- · Suitable for mobile applications.
- · Professional connections.
- · Automatic, reliable and safe operation.
- $\cdot$  Optional: Masterswitch/Systemswitch for automatic selection of the desired energy source.



# **Specifications**

#### **General specifications**

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

Output waveformtrue sineNominal battery voltage12 VRecommended battery capacity> 200 AhContinuous power at 40 °C / 104 °F, cos phi 11800 WP30 power at 40 °C, cos phi 12000 W

Peak load4000 WAC connectioninternalGalvanic isolationyesEfficiency92 %Display/read-outLED displayDimensions, hxwxd420 x 318 x 130 mm

16.5 x 12.5 x 5.1 inch
Weight
14.6 kg

Approvals CE, E-mark, ABYC A-31, RRR

## **Technical specifications**

Technology HF switch mode Low battery voltage, switches off at 10 V,  $\pm$  0.5 V Low battery voltage, switches on at 11 V,  $\pm$  0.5 V High battery voltage, switches off at 15.5 V,  $\pm$  0.5 V

High battery voltage, switches on at \$14.5 V,  $\pm$  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

Minimal DC fuse (slow blow) 250 A

Minimal cable size 70 mm²

Harmonic distortion typical < 5%
Cos phi all power factors allowed

Transfer system the Masterswitch and Systemswitch can be connected to all sine wave

32.2 lb

inverters

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

-13 to 176 °F
Cooling natural/forced

Protection degree IP23

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

MasterBus compatible yes, using a MasterBus Inverter Interface or AC power analyser

