# Mass Combi 12/1600-60 (230 V)



Product code: 36011600





A Mastervolt Mass Combi offers best price/quality ratio. The exceptionally reliable Mass Combi series offers a lot of power at a highly competitive price. In addition, the four models are also available in two customer-friendly variations with remote control or MasterBus.

The powerful 3-step+ battery charger guarantees maximum battery life and can simultaneously charge two battery banks. The inverter with high peak power starts even the heaviest loads, with the Mass Combi 12/1600 being easily sufficient for your espresso machine. A built-in distribution system switches between grid and inverter power, while two separate AC outputs allow users to connect critical loads to a preferred group.

#### Grid connected solar power system with energy storage

The Mass Combi enables the expansion of a grid connected solar power system with energy storage in batteries. This way the majority of the generated energy is used, and users are less dependent on the electricity grid. In this setup, the Mass Combi is part of a MasterBus controlled system.

#### **Benefits of the Mass Combi:**

- · Compact, lightweight and no hum thanks to HF technology.
- · High yield and more power from your batteries.
- Intelligent 3-step+ battery charger with low DC ripple current for fast charging times and long battery life.
- · Charges two individual battery banks simultaneously.
- · Quiet, powerful inverter with 200 % peak power.
- Power Assist: extra power assistance from the batteries in case of limited grid or generator power (prevents blown fuses).
  - · Pure sine wave energy prevents failures and damage to sensitive equipment such as adapters.
- · Dual AC outputs to separate critical equipment from heavy loads.
- · Higher yields possible via parallel switching (only for 2200 and 2600 W models).
- · Professional connections ensure fast installation and operational security.
- · CE approved and E-marking for mobile applications.

#### Maximise your convenience with a Mass Combi package deal

Combi deal with MasterBus (MB version)

To integrate the Mass Combi into a MasterBus system in a simple manner, Mastervolt can deliver all Mass Combi models in a MasterBus version. The relevant product code includes the Mass Combi model of your choice, complemented by a <u>MasterBus Combi interface</u>MasterBus Combi interface.

Combi deal with remote control (Remote version)In addition, Mastervolt can provide all Mass Combi models in a Remote version so that the AC and DC power status can be monitored remotely. The relevant product code includes the Mass Combi model of your choice, plus an <u>ICC</u>ICC and an <u>APC</u>APC remote control panel.



# Specifications

## Specifications sine wave inverter

Nominal DC voltage Output voltage Output frequency Output waveform Continuous power at 25 °C / 77 °F, cos phi 1 Max. peak load Max. efficiency Max. ripple on DC (battery at full load) No-load power consumption on DC (ON/inverter OFF/OFF/energy saving) Parallel configuration 3-Phase configuration Synchronise with mains/generator

## Specifications battery charger

Input voltage range Max. input current Max. charge current at 25 °C / 77 °F Secondary charger output voltage Secondary charger output current No-load power consumption on AC Battery temperature sensor Battery voltage sense

## Specifications transfer system

AC input 1 AC output 1 AC output 2 AC input fuse Transfer speed Transfer voltage range Transfer frequency range

## **General specifications**

Display/read-out Dimensions, hxwxd

Weight

Approvals

# **Technical specifications**

Charge characteristic Battery types Recommended battery capacity Ground relay Temperature range (ambient temp.)

Protection degree Safety class Humidity protection Protections Cooling Power Assist MasterBus compatible



12 V (10-15 V) 230 V (± 5 %), adjustable 180-250 V 50/60 Hz (± 0.05 %), configurable true sine, Thd < 2.5 % under standard conditions 1600 W 3000 W >= 90 % < 5 % 9 W / 0.1 W / 0 W / 0.5 W

no no yes

180-265 V 4.5 A 60 A at 14.25 V, adjustable 12 V 5 A < 15 W yes, included automatic compensation

50 A (25 A switched, to short break output) 25 A (short break output) 50 A (power output) yes, resettable half seamless (25 ms max., 10 ms typical) 180-265 V 45-65 Hz

LED display 371 x 318 x 143 mm 14.6 x 12.5 x 5.6 inch 7.8 kg 17.2 lb CE, ABYC, E4

3-step+ (IUoUo, fully automatic), Equalize AGM/gel/MLI/flooded/spiral/traction ~ 120-360 Ah (based on gel batteries, may differ for other types) yes, configurable -25 °C to 60 °C, derating > 25 °C -13 to 140 °F IP23 (vertical mounting) IEC protection class I conformal coating, max. 95 % relative humidity, non condensing over temperature, overload, short circuit, high/low battery voltage maintenance-free vario fans yes yes, in combination with a MasterBus Combi Interface