Mass Combi 24/1800-35 MB (230 V)



Product code: 36021802



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: 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 ICCICC and an APCAPC remote control panel.



Specifications

Specifications sine wave inverter

Nominal DC voltage 24 V (19-31 V)

Output voltage 180-250 V (adjustable) 50/60 Hz (± 0.05 %)

true sine

no

Output waveform Continuous power at 25 °C / 77 °F, cos phi 1

1800 W 3000 W Max. peak load Max. efficiency >= 90 % Max. ripple on DC (battery at full load) < 5 % Energy saving mode consumption 0,5 W

Parallel configuration Synchronise with mains/generator yes DC consumption at 230 V < 9 W

Specifications battery charger

Input voltage range 180-265 V

Max. charge current at 25 °C / 77 °F 35 A at 28.5 V, adjustable Primary AC consumption (full charge) 5.2 A Secondary charger output voltage 24 V 5 A Secondary charger output current

< 15 W No-load power consumption on AC Battery temperature sensor yes, included

Battery voltage sense automatic compensation

Specifications transfer system

AC input 1 50 A (25 A switched, to short break output)

AC output 1 25 A (short break output) AC output 2 50 A (power output) AC input fuse yes, resettable

Transfer speed semi-seamless (10 ms typical)

180-265 V Transfer voltage range 45-65 Hz Transfer frequency range

General specifications

Display/read-out LED display Dimensions, hxwxd 371 x 318 x 143 mm 14.6 x 12.5 x 5.6 inch

Weight 17.2 lb

Delivered with MasterBus Combi Interface Compliance CE, ABYC, E4, RMRS

Technical specifications

Charge characteristic IUoUo, automatic / 3-step+ for Gel/AGM/MLI/ flooded/spiral/traction

Max. current power output Max. current shortbreak / inverter output

Recommended battery capacity ~ 70-210 Ah (based on gel batteries, may differ for other types)

Ground relay yes, configurable

Temperature range (ambient temp.) -25 °C to 60 °C, derating > 25 °C

-13 to 140 °F

Cooling maintenance-free vario fans Protection degree IP23 (vertical mounting) Safety class IEC protection class I

conformal coating, max. 95 % relative humidity, non condensing **Humidity protection** Protections over temperature, over load, short circuit, high/low battery voltage

yes

yes

Power Assist MasterBus compatible

