Mass Combi 12/2200-100 (230 V)

Product code: 36012200

The renewed Mass Combi offers the best price/quality ratio. Based on the exceptionally reliable Mass Combi series, the four new models now offer even more power at a highly competitive price. In addition, they 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 new 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.

The benefits of the improved 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 MasterBus Combi interfaceMasterBus 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 [ICC](ICC)ICC and an [APC](APC)APC remote control panel.

Specifications

Specifications sine wave inverter

Nomimal DC voltage	12 V (10-15 V)
Output voltage	230 V (± 5 %), adjustable 180-250 V 50/60 Hz (± 0.05 %)
Output waveform	true sine, Thd < 2.5 % under standard conditions
Continuous power at 25 °C / 77 °F, cos phi 1	2150 W
Max. peak load	4000 W
Parallel configuration	yes, up to 2 units
Synchronise with mains/generator	yes
Efficiency	>= 90 %

Specifications battery charger

Nominal input voltage	180-265 V
Max. input current	7.2 A
Max. charge current at 25 °C / 77 °F	100 A at 14.25
Secondary charger output current	5 A
Battery temperature sensor	yes, included

Specifications transfer system

AC output 1	25
AC output 2	50
Transfer speed	half seamless (25 ms max., 10 ms typical)

General specifications

Display/read-out	LED display
Dimensions, hxwxd	496 x 318 x 156 mm
	19.5 x 12.5 x 6.1 inch
Weight	11 kg
	24.3 lb
Approvals	CE, ABYC, E4

Technical specifications

Charge characteristic	IUoUo, automatic / 3-step+ for gel/AGM/MLI/wet/spiral/traction
Ground relay	yes, configurable
Temperature range (ambient temp.)	-25 °C to 60 °C, derating > 25 °C
	-13 to 140 °F
Protection degree	IP23 (vertical mounting)
Protections	over temperature, over load, short circuit, high/low battery voltage

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Cooling	maintenance-free vario fans
MasterBus compatible	yes, in combination with a MasterBus Combi Interface