

Mass Combi



**Continuous
230 V power,
constant peace of mind**

Battery charger and inverter
in one compact device

12, 24 and 48 Volt versions

MasterBus technology

'Powerboost' option

 **MASTERVOLT**

THE POWER TO BE INDEPENDENT



Continuous power and peace of mind in all conditions

The Mastervolt Mass Combi combines the best of both worlds, with an advanced battery charger and silent inverter rolled into one compact device. It is ideal for most boats, from sloops to 16-metre yachts, as well as for heavy mobile applications (e-mark certified).

Following the expansion of Mastervolt's range with two 48 V models, the Mass Combi is now also available for electric propulsion.

One of the key reasons for the Mass Combi's popularity is its versatility. The starter and service batteries are charged quickly and completely, while the inverter provides silent and clean power. When insufficient shore power is available, the Mass Combi battery provides a powerboost so that you can continue using your 230 V equipment.

Modern technology

The design of the Mass Combi is both unique and characteristic of Mastervolt. Rather than installing heavy transformers, our lightweight, high-frequency technology offers major benefits regarding size, weight and sound (no hum!). The technology also ensures an exceptionally high efficiency with a minimal conversion loss and a low no-load consumption. The Mass Combi meets all your requirements and more!

Combined functionality

- Charging two individual battery banks.
- Supplies 12, 24 and 48 Volt onboard power.
- Invert to 230 V/50 Hz pure sine wave voltage.
- Multiple distribution and switching systems.
- Powerboost from battery when shore power is limited (shore/generator support).
- Parallel function.

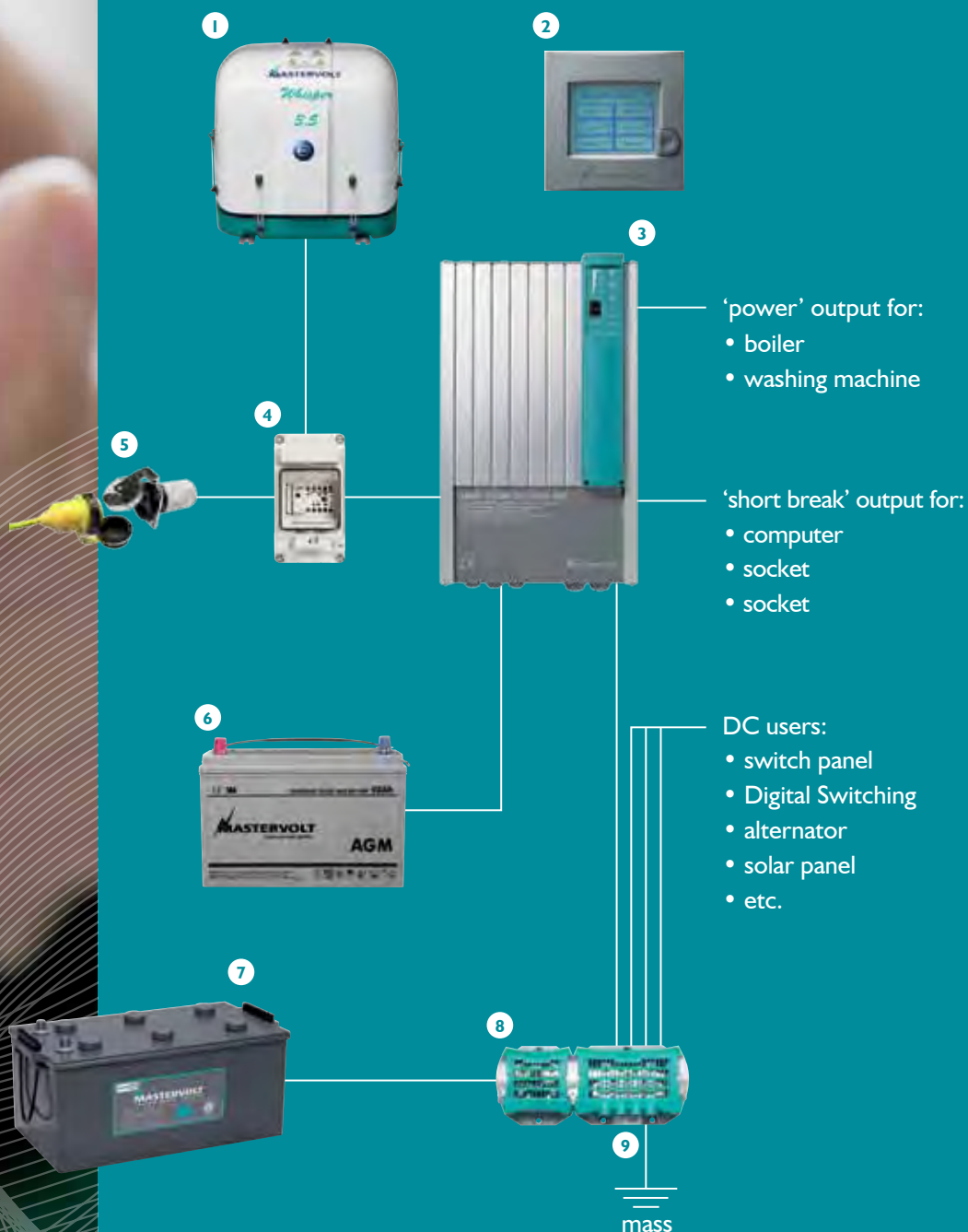
More information

Contact the nearest sales point or go to www.mastervolt.com/combi

Mastervolt Mass Combi in a MasterBus system



The Mastervolt Mass Combi fits perfectly within a MasterBus system. The system allows all components to be connected easily, provides a simple and intuitive operation and requires far fewer cables for installation. One MasterView Easy touch screen panel controls the entire system, displays information about the Combi as well as the batteries (via the MasterShunt) and operates the generator. The system can also be combined with Mastervolt's decentralised Digital Switching system.



- 1 3 kW generator
- 2 MasterView Easy
- 3 Mass Combi
- 4 Earth leakage switch
- 5 Shore connection
- 6 AGM battery
- 7 Gel battery
- 8 MasterShunt
- 9 DC Distribution

Bespoke power at 12, 24 and 48 V **NEW**

The complete Mastervolt Mass Combi range consists of ten 230 Volt models. The range was recently expanded with the Mass Combi 48/2500-35 and the Mass Combi 48/5000-70. These two new models offer all the benefits and comfort of the Mass Combi concept and are especially suitable for whisper-quiet electric propulsion. Check out the 120 Volt models at www.mastervolt.com/combi.



Powerboost for limited shore power

Keep using your heavy load equipment even if you only have 4 A or 6 A available from the shore. The Mass Combi will ensure that the batteries automatically provide a powerboost when shore power is too limited to power the on-board demand.



Invert to 230 V/50 Hz pure sine voltage

Don't worry about connecting your 230 V equipment. From coffee maker to laptop, flat screen, microwave or even air conditioning, all will be provided with constant power just as they are at home. The pure sine wave voltage ensures a longer lifespan for your more sensitive equipment.



Parallel function with second Mass Combi and generator for even more power

If you temporarily need more power, combine the supply from two sources and distribute as required. The Power Support function ensures that the Mass Combi switches the generator parallel to the battery capacity. This allows you, for instance, to prepare dinner in the galley and do laundry at the same time.



Intuitive operation

Each Mass Combi can be operated easily and intuitively. The Mass Combi includes LED indication of charging phase and charge current, the 230 V system load and 12/24 or 48 V system, 'yes/no' availability of 230 V and it features an on/off switch with a 'charge only' position for the winter period. Mastervolt also offers a complete selection of control panels, ranging from the compact 3.5-inch panel called MasterView Easy to a large 10.4-inch touchscreen panel.



Easy to install and lightweight

Thanks to its intelligent design with a casing made of anodised aluminium combined with high-frequency technology, the smallest Mass Combi weighs only 8 kg. Installation is easy (see 'Mass Combi in a MasterBus system'). Connection points are within easy reach and external mounting key hole slots allow speedy installation. The connections are provided by MasterBus, Mastervolt's intelligent one-cable-system. Note for installers: The Mastervolt Mass Combi is compliant with ABYC A-31.



Specifications 230 V Combi



12/1200-60



12/2000-100



12/2500-100



12/4000-200



24/1200-35

Article no.	36011205	36012005	36012505	36014005	36021205
Dimensions, hwxwx in mm	371x318x143	460.5x318x143	460.5x318x143	460.5x318x266	371x318x143
Weight	7.8 kg	11 kg	11 kg	21 kg	7.8 kg

SINE WAVE INVERTER - SPECIFICATIONS

Nominal DC input voltage	12 V (10-15 V)	12 V (10-15 V)	12 V (10-15 V)	12 V (10-15 V)	24 V (20-31 V)
Continuous power @ 25 °C	1200 W - 5.3 A	2000 W - 8.7 A	2500 W - 10.9 A	3750 W - 16.5 A	1200 W - 5.3 A
Surge capability (5 sec, resistive)	2400 W - 10.5 A	4000 W - 17.5 A	5000 W - 21.8 A	7500 W - 32 A	2400 W - 10.5 A
Parallel use (to double the power)	no	yes	yes	no	no
Parallel with shore/generator (for more power)	yes	yes	yes	yes	yes
Max. efficiency	90%	90%	90%	90%	92%
No load consumption 230 V / stand-by	<9 W / 0.5 W	<9 W / 0.5 W	<9 W / 0.5 W	<9 W / 1 W	<9 W / 0.5 W

AUTOMATIC BATTERY CHARGER - SPECIFICATIONS

Max. charge rate (adjustable)	60 A at 14.25 V	100 A at 14.25 V	100 A at 14.25 V	200 A at 14.25 V	35 A at 28.5 V
Charge voltage 25 °C (absorption/float)	14.25/13.25 V	14.25/13.25 V	14.25/13.25 V	14.25/13.25 V	28.5/26.5 V
Second charge output, 3-step	5 A	5 A	5 A	2x 5 A	5 A



24/2000-60



24/2500-60



24/4000-120



NEW

48/2500-35



NEW

48/5000-70

Article no.	36022005	36022505	36024005	36042505	36045005
Dimensions, hwxwx in mm	460.5x318x143	460.5x318x143	460.5x318x266	460.5x318x143	460.5x318x266
Weight	11 kg	11 kg	21 kg	11 kg	21 kg

SINE WAVE INVERTER - SPECIFICATIONS

Nominal DC input voltage	24 V (20-31 V)	24 V (20-31 V)	24 V (20-31 V)	48 V (40-62 V)	48 V (40-62 V)
Continuous power @ 25 °C	2000 W - 8.7 A	2500 W - 10.9 A	3750 W - 16.5 A	2500 W - 10.9 A	5000 W
Surge capability (5 sec, resistive)	4000 W - 17.5 A	5000 W - 21.8 A	7500 W - 32 A	5000 W - 21.8 A	8000 W
Parallel use (to double the power)	yes	yes	no	yes	no
Parallel with shore/generator (for more power)	yes	yes	yes	yes	yes
Max. efficiency	93%	93%	93%	93%	93%
No load consumption 230 V / stand-by	<9 W / 0.5 W	<9 W / 0.5 W	<9 W / 1 W	<9 W / 0.5 W	<9 W / 1 W

AUTOMATIC BATTERY CHARGER - SPECIFICATIONS

Max. charge rate (adjustable)	60 A at 28.5 V	60 A at 28.5 V	120 A at 28.5 V	35 A at 57 V	70 A at 57 V
Charge voltage 25 °C (absorption/float)	28.5/26.5 V	28.5/26.5 V	28.5/26.5 V	57/53 V	57/53 V
Second charge output, 3-step	5 A	5 A	2x 5 A	n.a.	n.a.

GENERAL SPECIFICATIONS

Output voltage sine wave inverter, adjustable	230 V, ± 5%, 50/60 Hz
Nominal input voltage battery charger	230 V (180-265 V)
Battery type settings	open lead, gel, AGM, traction, spiral, Lithium Ion
Temperature sensor for the battery	delivered as standard with 6 mtr cable and telejack plug
Ground relay	yes, adjustable by DIP switch
Listings	fully CE and E-marking according Automotive Directive 95/54/EG

DOUBLE POLE TRANSFER SYSTEM

Max. current first output	50 A
Max. current shortbreak / inverter output	25 A

Subject to change. For more information plus an overview of our control panels and the 120 Volt models, see www.mastervolt.com/combi



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