

Mass 24/25-2



Product code: 40020256

Mass battery chargers are designed for the toughest conditions for professional, semi-professional and recreational purposes. Even under the most extreme conditions the products from the Mass series operate faultlessly, giving you round-the-clock output when necessary. The sustainability and technologies that underpin the Mass concept have long been proven in practice. 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.

Powerful selling points

- Designed for the most difficult conditions.
- Lightweight, stainless steel, anodised aluminium casing.
- Coating of internal components prevents damage from damp or condensation to ensure a longer lifespan.
- Insensitive to electromagnetic effects from other devices.
- Suitable for every type of battery, also charges entirely empty batteries.
- Delivered as standard with temperature sensor.
- Full power at temperatures of up to 45°C.
- Load capacities from 80 to 1000 Ah or more.
- Stable power supply of 24 and 48 V, even without batteries.
- The Current Control function allows you to reduce the battery charger power to prevent blowing the fuse, even when the voltage drops.
- Parallel switching possible using multiple battery chargers.
- Connections in accordance with CE, ABYC A-31 and IEC60945.
- Certified by RRR, RS, DNV (24/25, 24/50, 24/75, 24/100 models) and Germanisch Lloyd, Lloyd (24/75, 24/100 models).
- Type approval for application in safety zones A, B and C.

For professional use: GMDSS

Professional users will benefit from a front display with GMDSS alarm functions GMDSS stands for Global Maritime Distress and Safety System, an internationally agreed-upon set of safety procedures, types of equipment, and communication protocols that is a requirement for the SOLAS (Safety Of Life At Sea) convention and uses DSC and satellite communication.

This front display is only available for Mass 24/25-2 DNV, Mass 24/50-2, Mass 24/75, Mass 24/100 and Mass 24/100-3ph.

Charging Lithium Ion batteries

Although Lithium Ion batteries are increasingly popular, there can be a lack of clarity when it comes to the charging process. This is not a problem with Mastervolt as the Mastervolt battery chargers communicate directly with the Lithium Ion battery via the integrated MasterBus (or have been adapted to the required charging voltages).

MasterBus compatible

Mass battery chargers can be easily connected to a MasterBus network with only one cable and one connection. You can also choose central, local or remote monitoring, configuration and control of your system.

Specifications

General specifications

Nominal output voltage	24 V
Total charge current	25 A
Number of battery outlets	2
Charge current second output	3 A
Battery capacity range	50-250 Ah
Nominal input voltage	230 V (180-265 V), 50/60 Hz
Power supply mode	yes
Display/read-out	LED display
Dimensions, hxxwx	325 x 220 x 111 mm
	12.8 x 8.7 x 4.4 inch
Weight	3.3 kg
	7.3 lb
Approvals	CE, ABYC A-31, RRR, RS

Technical specifications

Charge characteristic	IUoUo, automatic 3-step+ for gel/AGM/wet/Lithium Ion
Charge voltage Bulk	28.5 V
Charge voltage Absorption	28.5 V
Absorption time	4 hours
Charge voltage Float (wet batteries)	26.5 V
Charge voltage Float (gel/AGM batteries)	27.6 V
Temperature compensation	- 60 mV/ °C
	0 mV/ °F
Voltage compensation	voltage drop compensation in DC cables up to 3 V
Power consumption (DC side)	< 1 mA
Full load consumption (230 V AC)	880 W
Current Control function	yes, through MasterBus
Power factor control	> 0.95
Temperature range (ambient temp.)	-25 °C to 80 °C, derating > 45 °C
	-13 to 176 °F
Sound level	< 48 dBA at 1 mtr
Protection degree	IP23
Charger Status Interface (alarm contact)	integrated in the battery charger as standard
Protections	over temperature, over load, short circuit, high/low battery voltage
Cooling	vario fan
MasterBus compatible	yes