Mass 48/50



Product code: 40040506



The right choice for demanding conditions

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 flat batteries. Delivered as standard with temperature sensor. Full power at temperatures of up to 45ËšC. Load capacities from 80 to 1000 Ah or more. Stable and ripple free power supply, even without batteries. The Current Control function prevents the breakdown of fuses when the voltage drops. Parallel switching possible using multiple battery chargers. Connections in accordance with CE, ABYC A-31 and IEC60945. GMDSS models and panels available. Certified by RRR and RMRS.



GMDSS Compatible

The Mass series are designed for the most demanding situations. To help you comply with SOLAS regulation, all Mass battery chargers are GMDSS compatible. GMDSS stands for Global Maritime Distress and Safety System, and allows users to monitor various alarm functions. A separate GMDSS remote panel GMDSS remote panel is available, which is compatible with all Mass battery chargers.

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.

Made tough by smart design

The certified Mass battery chargers are very strong, designed to withstand heavy vibrations and shocks. Their premium quality components meet the highest possible specifications, while the smart and extra robust mounting adds to the professional end result.



Specifications

General specifications

Nominal output voltage 48 V

Total charge current 50 A at 57 V

Number of battery outlets 1

Number of battery outlets
Battery capacity range

Nominal input voltage

Power supply mode

Galvanic isolation

Display/read-out

Dimensions, hxwxd

230 V (180-265 V), 50/60 Hz

yes

LED display

420 x 318 x 130 mm

16.5 x 12.5 x 5.1 inch

Weight 7.7 kg 17.0 lb

Approvals CE, ABYC A-31, RRR, RMRS

Technical specifications

Charge characteristic IUoUo, automatic 3-step+ for gel/AGM/wet/Lithium Ion

100-500 Ah

Charge voltage Bulk57 VCharge voltage Absorption57 VAbsorption time4 hours

Charge voltage Float (wet batteries)53 VCharge voltage Float (Gel/AGM batteries)55.2 VTemperature sensoryes (included)

Temperature sensor yes (included by the compensation yes)

Power consumption (DC side) < 1 mA

Full load consumption (230 V AC) 3500 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
Cooling vario fan
Protection degree IP23

Protections over temperature, over load, short circuit, high/low battery voltage

yes

yes

MasterBus compatible
Charger Status Interface (alarm contact)

