

Mass 24/50-2



Product code: 40020506

For the toughest tasks

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 280,000 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.

Making the best even better

The reliability and long lifespan of Mastervolt's battery chargers have been established beyond doubt over the past 20 years. While the Mass products have evolved with the latest technological developments, the dimensions and connections have remained the same. As a result it is exceptionally easy to replace one unit with another with only negligible downtime.

Mastervolt Green by Heart

As part of our constant search for eco-friendly and long-lasting solutions, Mastervolt has developed the Green by Heart programme. Its impact on the Mass battery chargers include:

- An exceptionally effective use of the consumed input current ($\cos \phi$) > 0.98!
- Faster charging of batteries, even when the input current is limited.
- Use of top quality components with a long lifespan.
- Savings in weight and space.
- Fewer installation materials.

Specifications

General specifications

Nom. output voltage	24 V
Total charge current	50 A
Number of battery outlets	2
Charge current second output	3 A
Battery capacity range	100-500 Ah
Nominal input voltage	230 V (180-265 V), 50/60 Hz
Supplies your system without battery	yes
Display/read-out	LED display
Dimensions, hxxwxd	340 x 261 x 130 mm 13.4 x 10.3 x 5.1 inch
Weight	4.6 kg 10.1 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 -33 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)	1800 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
Sound level	< 48 dBA at 1 mtr
Protection degree	IP23
Safety protections	over temperature, over load, short circuit, high/low battery voltage
MasterBus compatible	yes
CSI/DC alarm	integrated in the battery charger as standard