

# MLI Ultra 12/5000



Product code: 66015000

The MLI series is designed to be able to enjoy all the best properties of Lithium Ion technology in the harshest conditions (high charge/discharge currents, flooded environment, mechanical shock or vibrations). To do this, the MLI batteries bring two things on top of Lithium-iron phosphate cells: a sturdy, waterproof housing and the best Battery Management System (BMS). The BMS ensures optimal use of each individual cell, even during fast charge and discharge, and has integrated battery monitoring to always have the best information on the state of your battery. Last but not least, it has MasterBus/CAN communication to the Mastervolt battery charger to ensure the best possible recharging and lifetime of the battery.

- Top performance, heavy duty Lithium Ion batteries.
- Ideal for running heavy loads for long periods and short charge times.
- Saves up to 70 % in space and weight.
- Three times the lifespan of traditional batteries.
- High cycle efficiency.
- Fast charging up to half an hour.
- High discharge rate up to 3C.
- MasterBus/CAN communication with every Mastervolt battery charger.
- Integrated Battery Management System (BMS).
- Integrated battery monitoring (Ah consumed, state of charge).
- Series connection up to 10 batteries possible.
- Waterproof electronics cabinet.
- Extremely safe LiFePO4 chemistry.
- Tested and certified according to UN38.3.

#### CAUTION!

For additional safety, Mastervolt stipulates the use of a safety relay as mandatory part of the battery installation. Mastervolt provides 12- and 24-volt models, so you can always opt the correct voltage.

- safety relay 12 volt, product code [7700B-BSS](#)7700B-BSS

# Specifications

## General specifications

Nominal battery voltage	13.2 V
Nominal battery capacity	360 Ah
Nominal battery energy capacity	5000
Cycle life	3500 cycles at 80 % DOD at 25 0C, max. C3 charge and C2 discharge (for batteries produced from December 2017)
Max. charge current	500 A (1,4 C)
Continuous discharge current	500 A (1,4 C)
Peak discharge current	1800 A (5 C) for 10 s
Battery monitoring	integrated
MasterBus communication	yes
Terminals	M8
Mounting position	upright or either long side
Max. outer dimensions (incl. terminals/grip handles), lxwxh	622 x 197 x 355 mm 24.5 x 7.8 x 14.0 inch
Weight	58 kg 127.9 lb

## Technical specifications

Battery chemistry	Lithium Iron Phosphate
Protection degree	IP65 (electronics cabinet)
Parallel connection	yes, unlimited
Series connection	yes, up to 10 batteries (series balancing up to 2 batteries)
Protections	over voltage, under voltage, over temperature
Safety relay	to be added mandatorily, product code 7700-BSS
Safety relay controls	integrated