

# Lithium Ion Ultra

Having perfected the legendary Lithium Ion battery in a few key areas, Mastervolt has developed an unrivalled 2500 or 5000 Wh powerhouse.




The MLI Ultra has an ultra-long lifespan that offers over 2000 cycles at 80% DOD; a potential recharge time of less than an hour; active cell balancing for efficient and safe use of the Li-ion cells; and integrated battery monitoring to further simplify your system.

What's more, the Ultra communicates directly with your Mastervolt battery charger via MasterBus to ensure the best possible recharging. Add in the fact that it takes up 70% less space and weight compared to lead acid batteries, and you'll see why this battery is the best choice.

- Highly advanced technology.
- Multifunctional battery of 2.5 kWh or 5 kWh.
- Saves up to 70% in space and weight.
- Three times the lifespan of traditional batteries (2000 cycles).
- Ultra-fast charging and discharging.
- High efficiency.
- MasterBus communication with every Mastervolt battery charger.
- Integrated Battery Management System (BMS) and monitoring.
- Series balancing technology optimizes string connection.
- Safest Lithium Ion technology available.
- Tested and certified according to UN38.3.
- Two year warranty.



## Specifications Lithium Ion Ultra

			
	<b>MLI Ultra 12/2500</b>	<b>MLI Ultra 12/5000</b>	<b>MLI Ultra 24/5000</b>
Product code	66012500	66015000	66025000
<b>GENERAL SPECS</b>			
Nom. battery voltage	13.25 V	13.25 V	26.5 V
Battery capacity range	180 Ah	360 Ah	180 Ah
Nom. battery power	2500 Wh	5000 Wh	5000 Wh
Battery monitoring	integrated	integrated	integrated
Battery terminals	M8	M8	M8
MasterBus powering	yes	yes	yes
Max. outer dimensions, l x w x h (incl. terminals/grip handles)	339 x 197 x 355 mm 13.3 x 7.8 x 14 inch	622 x 197 x 355 mm 24.5 x 7.8 x 14 inch	622 x 197 x 355 mm 24.5 x 7.8 x 14 inch
Weight	31 kg / 68.3 lb	58 kg / 127.9 lb	58 kg / 127.9 lb
<b>TECHNICAL SPECS</b>			
Technology	LiFePO4	LiFePO4	LiFePO4
Parallel connection	yes, unlimited	yes, unlimited	yes, unlimited
Series connection	yes, up to 10 batteries (series balancing up to 2 batteries)	yes, up to 10 batteries (series balancing up to 2 batteries)	yes, up to 10 batteries (series balancing up to 2 batteries)
Switch off relay controls	integrated	integrated	integrated
Mandatory safety relay	yes, product code 79007700	yes, product code 79007700	yes, product code 79007702



### Large battery banks

The Lithium Ion Ultra batteries are ideal for electric and hybrid applications, and can be connected in parallel unlimited. The built-in common-rail technology offers an easy series connection of multiple batteries.

### Safe operation



The Mastervolt Li-ion battery is equipped with an integrated Battery Management System with active cell balancing. Ensuring that the available energy is automatically divided between cells guarantees efficient and safe functioning of the battery.

### Superior performance

Mastervolt Lithium Ion batteries have a realistic lifespan of over 2000 cycles at a depth of discharge (DOD) of 80%. This is three times longer than lead acid batteries thanks to features such as battery management, the almost complete absence of self discharge and the minimal build-up of the infamous 'memory effect'.

### Weight reduction

As speed and performance are crucial aspects, a Lithium Ion battery – which takes up 70% less weight than similar lead acid batteries – offers considerable benefits. A vessel or vehicle with a capacity of 20 kWh on board, can easily save up to 500 kg and achieve a substantially better performance.

### Easy installation



The elegant design of the Li-ion Ultra in the characteristic Mastervolt colours includes two integrated handles with a recess for the correct and practical installation of the cables. As the battery poles are easily accessible and completely protected, extra isolation covers are not needed.