

# MLI 24/160



Product code: 66020160

Lithium Ion is the battery technology of today. Do you want to be the fastest or best performing? Do you want to save energy or burn less fuel? Do you want your investment to last longest? Do you want to be 'out there' longest without getting anxious about your energy? Then Lithium Ion is your choice of batteries.

Lithium Ion batteries have a high energy density, offering savings of up to 70 % in volume and weight compared to traditional lead-acid batteries. They are perfect for cyclic applications, making over 2000 cycles with very deep (80 %) discharges, effectively storing 5 times as much energy over its lifespan compared to lead-acid.

The Mastervolt MLI range is top of the line. It offers large capacity batteries designed for extreme duty cycling, with all possible features such as integrated Battery Management System (BMS) and MasterBus/CAN communication.

A few of its outstanding features:

- Space and weight savings up to 70 %.
- Three times the lifespan of traditional batteries.
- Extremely fast charging and discharging.
- High efficiency: not wasting energy.
- CZone / NMEA 2000 or MasterBus / CAN communication.

### **Safest Lithium Ion technology available**

The term Lithium Ion encompasses multiple chemistries, having slightly different compositions of materials. These differences result in variations of energy and power density, lifespan, cost and safety. As safety is our primary concern, Mastervolt chooses to use only the safest available Lithium Ion chemistry, Lithium-iron phosphate (LiFePO<sub>4</sub>).

### **Mastervolt brings Lithium Ion technology in three product ranges**

MLI series; Large capacity series, fully equipped for extreme cycling, like running airconditioning, pumps or electric motors for long periods of time with short intermittent charging.

MLI-E series: The MLI-E is ideal for applications where long lifespan, light weight, fast charging and compactness are key. Its practical form factor makes the MLI-E perfectly suitable for mobile applications.

MLS series; Small capacity series, suitable for smaller applications, such as portable/mobile equipment or backup power.

### **Safe Operation**

The Mastervolt MLI series is equipped with an integrated Battery Management System (BMS) and communication through MasterBus/ CAN. Even in the harshest cycling conditions this guarantees efficient and safe operation of the battery.

The MLS batteries come with an integrated automatic safety switch. Safety always comes first.

### **Weight Reduction**

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

## Superior Performance

Mastervolt Lithium Ion batteries have a realistic lifespan of over 2000 cycles at a depth of discharge (DOD) of 80 %. This means five times more energy storage than lead acid batteries thanks to features such as extremely high efficiency, the almost complete absence of self discharge and the minimal build-up of the infamous 'memory effect'.

## Suitable for large battery banks

The MLI series is 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 MLI Ultra batteries.

## Easy Installation

The MLI series includes two integrated handles with a recess for the correct and practical installation of the cables. The battery poles are easily accessible and completely protected, so no extra isolation covers are needed.

The MLS batteries make a great 'drop-in replacement' for a system with lead-acid batteries, because no system changes or additional components are required.

# Specifications

## General specifications

Nominal battery voltage	26.5 V
Nominal battery energy capacity	4.3
Battery bank size	160 Ah
Max. outer dimensions (incl. terminals/grip handles), l x w x h	623 x 199 x 345 mm 24.5 x 7.8 x 13.6 inch
Weight	55 kg, 90 Wh/ kg 121.3 lb

## Technical specifications

Parallel connection	yes, unlimited
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