

MLI-E 12/1200



Product code: 66011200

The new Mastervolt Lithium-Ion battery MLI-E closes the gap between the highly compact MLS battery and the successful high-capacity MLI Ultra 2500 and 5000 series. The MLI-E is ideal for applications where long lifespan, light weight, fast charging and compactness are key. And its practical form makes the MLI-E especially suitable for mobile applications.

Efficient power in a compact case, ideal for automotive applications

Lithium-ion technology has many advantages over lead-acid, allowing the MLI-E to save up to 70 % in space and weight, recharge in less than an hour, and undergo 5000 deep cycles without damage – up to ten times longer than comparable lead-acid batteries. Moreover, the MLI-E uses exceptionally safe lithium iron phosphate (LiFePO4) technology.

The MLI-E has an integrated battery management system including a safety disconnect, which protects it from deep discharging, overcharging and overheating. Eliminating the need for an external safety relay means the MLI is very easy to install. And thanks to its waterproof plastic case, the MLI-E is a straightforward replacement for most lead-acid batteries.

The MLI-E also has integrated battery monitoring which provides details about its status such as voltage, current, temperature, state of charge and time remaining. Its CAN communication ensures a seamless integration with Mastervolt products, via our system monitor EasyView 5, or with other electrical components in your power system. Hands-on monitoring is also possible via Bluetooth, and LED indicators inform you about the actual status of your battery. An automated, intelligent power system within easy reach.

Features

- Straightforward replacement for most existing lead-acid batteries.
- Ultra-compact, practical size (according to battery standard LN5 – Group 49, H8), EqPb: 200 Ah.
- Very long lifespan.
- Fast charging and discharging, fully charged within an hour.
- Very efficient, no waste of energy.
- High performance even in harsh conditions.
- Integrated battery monitoring for reliable battery status information.
- CAN communication for automated, intelligent energy system integration.
- Monitoring via Bluetooth app.
- Quick installation & commissioning - maintenance-free.
- Exceptionally safe lithium-ion (LiFePO4) technology.

Applications

Its size, weight, tough waterproof case and resistance to shocks make the MLI-E ideal for mobile applications. Other possible applications include marine, infrastructure, off-grid and industrial: wherever long lifespan, light weight, fast charging and compactness are key.

Specifications

Communication & monitoring

Communication

CAN, Bluetooth, LED indicators, MasterBus and CZone compatible

General specifications

Nominal battery voltage	13.2 V
Nominal battery capacity	90 Ah
Nominal battery energy capacity	1200
Cycle life	< 5000
Max. charge current	90 A (1 C)
Continuous discharge current	200 A (2.2 C)
Peak discharge current	350 A (3,8 C) for 30s
Battery monitoring	integrated
Battery terminals	automotive or M8 hexagon
Mounting position	mountable in multiple orientations, suitable for LN5 fastening brackets
Max. outer dimensions (incl. terminals/grip handles), l x w x h	353 x 175 x 190 mm 13.9 x 6.9 x 7.5 inch
Battery standard	LN5 - Group 49, H8
Weight	12.5 kg 27.6 lb
Battery designation	IEC 62620: IFpR19/67[60p4s]M/-10+60/90 - IEC 61960: 4IFpR19/67-60
Delivered with	2x automotive battery pole, 2x M8 bolt, hexagon tool, USB stick (with manual)

Technical specifications

Battery chemistry	Lithium Iron Phosphate
Protection degree	IP62
Parallel connection	yes, unlimited
Series connection	no
Protections	over voltage, under voltage, over-temperature
Safety disconnect	automatic, integrated