

# MLS 12/390



Product code: 65010030

The MLS series is the MLI Ultra's smaller brother, for smaller capacity applications where reducing weight/volume and/or increasing cycle life is key. It is specifically designed to be as easy as possible to install. The MLS series comes with an integrated safety switch, this saves installation and commissioning time. For higher capacity, multiple MLS batteries can easily be connected in parallel.

While the MLS series is a little less heavy duty than the MLI Ultra series, it gives an ideal entry to the benefits of Lithium Ion technology. Perhaps consider replacing your existing lead-acid battery?

The MLS series is designed to be extremely easy to install without any additional components. All the models comprise of a tough waterproof plastic case. This makes it a straight-forward replacement for most existing lead-acid batteries.

## Features

- Entry into Lithium Ion technology.
- For smaller capacity applications up to 90 Ah.
- Drop-in replacement for lead-acid batteries.
- Saves up to 70 % in space and weight.
- Three times the lifespan of traditional batteries.
- High cycle efficiency.
- Fast charging up to one hour.
- High discharge rate up to 1C.
- Integrated Battery Management System (BMS).
- Self-regulating due to its integrated automatic safety disconnect.
- Suitable for unlimited parallel operation.
- Waterproof electronics cabinet.
- Extremely safe LiFePO4 chemistry.
- Tested and certified according to UN38.3.

## Applications

The MLS batteries are suited for many different applications where capacity up to 90 Ah is needed. Its compactness and low weight plus the fact that it is mountable in multiple orientations, make it ideal for portable applications such as mobile communications. The MLS is also often used for (UPS) backup power. Applications range from small boats and vehicles to security systems and industrial applications.

# Specifications

## General specifications

Nominal battery voltage	12 V
No-load voltage, fully charged	12,8 V
Nominal battery capacity	30 Ah
Nominal battery energy capacity	384
Cycle life	~2000 at 80 % DoD
Max. charge current	30 A (1 C)
Continuous discharge current	30 A (1 C)
Max. short discharge current	for 30 sec 60 A (2 C)
Peak discharge current	for 2 sec 100 A (3,3 C)
Terminals	M5
Mounting position	upright or either long side
Max. outer dimensions (incl. terminals/grip handles), lxwxh	182 x 126 x 140 mm 7.2 x 5.0 x 5.5 inch
Weight	4.9 kg 10.8 lb

## Technical specifications

Battery chemistry	Lithium Iron Phosphate
Protection degree	IP65 (electronics cabinet)
Parallel connection	unlimited
Series connection	no (see the configuration and requirements manual)
Starter battery	not recommended
Protections	over voltage, under voltage, over temperature
Safety disconnect	yes, electronic