SUPER B
lithium batteries




# DATASHEET
# MASON 12V25Ah

The Mason 12V25Ah power battery is light-weighted, compact and offers high performances. Thanks to its lithium iron phosphate technology and integrated BMS system this new generation battery is extremely reliable and offers optimal safety. This battery is developed for motorsport, motorcycle, automotive and marine applications. Suitable for 12V systems and for use in extreme environments.

## LIGHTWEIGHT POWER

With a weight of ±5.2kg /11.46lbs, the Mason 12V20Ah power battery saves up to 60% in weight in comparison to traditional lead-acid batteries and is only 1/3 of the size of a conventional battery. This improves not only the performance of your vehicle but also helps to increase the fuel economy.

The battery offers a high level of power, fast charging and a long, maintenance free service life. It also has a stable and flat discharge which means you have over 80% of the batteries capacity available.

## INTEGRATED BMS

The Mason 12V25Ah power battery incorporates a Battery Management System (BMS) to ensure a high level of safety during use. The BMS constantly monitors the status of individual battery elements such as cell temperature, cell voltage, charge and discharge currents. The integrated BMS also provides cell balancing.

## SAFE AND RELIABLE

Due to its high ingress protection class (IP66) the battery is dust tight and waterproof. Therefore the battery can be used in the most extreme environments as well.

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Nominal Capacity | 25Ah |
| Energy | 320Wh |
| Nominal Voltage | 12.8V |
| Open Circuit Voltage | 13.2V |
| Self Discharge | <3% per Month |
| Cycle life | >1000 cycles at 10C discharge (100% DoD) |
| EqPb (Equals lead-acid) | 100 to 130Ah |

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions (LxWxH) | 255 x 101 x 171mm<br>10.0" x 4.0" x 6.7" |
| Weight | ±5.2 kg / 11.46 lbs |
| Case Material | PC - ABS |
| Ingress Protection | IP66 |
| Cell Type / Chemistry | Cylindrical - LiFePO4 |

## CHARGE & DISCHARGE SPECIFICATIONS

| | |
|---|---|
| Charge Method | CCCV |
| Charge Voltage | 14.3V - 14.6V |
| Max Charge Current | 77A |
| End of Discharge Voltage | 8V |
| Discharge Current Continuous | 260A |
| Discharge Pulse Current (1 sec) | 1000A (40C) |

## TEMPERATURE SPECIFICATIONS

| | |
|---|---|
| Charge Temperature | 0°C to 55°C<br>32°F to 131°F |
| Discharge Temperature | -30°C to 55°C<br>-22°F to 131°F |
| Storage Temperature | -40°C to 60°C<br>-40°F to 140°F |

## COMPLIANCE SPECIFICATIONS

| | |
|---|---|
| Certifications | CE, UKCA, UN 38.3, UL 1642 (Cells) |
| Shipping Classification | UN3480 |

## GENERAL PRODUCT SPECIFICATIONS

| | |
|---|---|
| EAN-13 | 8718531361775 |
| Battery Designation | 4IFpR27/66-10 |

## PERFORMANCE

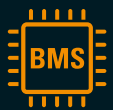

Fast charging


Lightweight


Long and maintenance free lifespan


Compact size


Low self-discharge



Integrated BMS



Safest Lithium Iron Phosphate Technology