



# LITHIUM BATTERIES



**Sphere lithium batteries are the future of mobile power storage. Lithium batteries are much lighter than traditional lead acid and AGM batteries and deliver unrivalled cycle life, more than four times more cycles compared to lead acid and AGM batteries.**

## UNRIVALLED BATTERY PERFORMANCE

Perfect for use in caravans, marine, camping and home storage applications, Sphere Lithium batteries are fully sealed and feature a built-in battery management system for safety.

If you are replacing an existing deep cycle lead acid or AGM battery you can continue to use your same battery charging system and the built-in battery management system will do the rest for you. You will also notice that lithium batteries charge more efficiently than lead acid and AGM batteries so the recovery will be much quicker.

Sphere lithium batteries use active cell balancing technology to balance the internal battery cells not only whilst charging but also whilst discharging. This assists in getting the battery as close to 100% charge levels as possible.

- 100AH AND 120AHLithium Ion
- 2000+Cycles
- Built in advanced BMS with Dynamic cell balancing
- Lightweight
- 3 Year Warranty
- Can be connected in series or parallel, maximum In-series voltage of 30.4V

*Note: This battery can't be used to start motor vehicles*

## SPHERE 12V 100AH LITHIUM RECHARGEABLE BATTERY

500-00830

### Specifications

Dimensions: 334x175x219mm  
 Chemical: Lithium Iron LiFePo4  
 Cell Type: Prismatic  
 Product Weight: 11kgs  
 Operating Temperature Range: -20°C ~ +60°C  
 Voltage: 12.8VDC  
 Amperage: 100AH  
 Maximum Discharge Rate: 1C  
 Max Continuous Current: 100A  
 Max 3 Second Pulse: 150A  
 Min Charge Current: 2A  
 Nominal Charge Rate: 30A  
 Max Charge Current: 100A  
 Max Charge Voltage: 14.8V  
 Recommended Charge Rate: 30A  
 Cell Balancing: 3AH charge & discharge  
 Cycles @ 100% DOD: DOD 2000 Cycles  
 Cycles @ 80% DOD: DOD 3000 Cycles  
 Cycles @ 50% DOD: DOD 3500 Cycles  
 Cycles @ 30% DOD: DOD 8000 Cycles  
 Low Voltage cut out: 10.0VDC  
 Maximum In-series voltage: 30.4V  
 BMS Reconnect: Automatic  
 Terminal: T8



## SPHERE 12V 120AH LITHIUM RECHARGEABLE BATTERY

500-00832

### Specifications

Dimensions: 334x175x219mm  
 Chemical: Lithium Iron LiFePo4  
 Cell Type: Prismatic  
 Product Weight: 12.66kgs  
 Operating Temperature Range: -20°C ~ +60°C  
 Voltage: 12.8VDC  
 Amperage: 120AH  
 Maximum Discharge Rate: 1C  
 Max Continuous Current: 100A  
 Max 3 Second Pulse: 150A  
 Min Charge Current: 2A  
 Nominal Charge Rate: 30A  
 Max Charge Current: 100A  
 Max Charge Voltage: 14.8V  
 Recommended Charge Rate: 30A  
 Cell Balancing: 3AH charge & discharge  
 Cycles @ 100% DOD: DOD 2000 Cycles  
 Cycles @ 80% DOD: DOD 3000 Cycles  
 Cycles @ 50% DOD: DOD 3500 Cycles  
 Cycles @ 30% DOD: DOD 8000 Cycles  
 Low Voltage cut out: 10.0VDC  
 Maximum In-series voltage: 30.4V  
 BMS Reconnect: Automatic  
 Terminal: T8



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