

## Features

- **LiFePO<sub>4</sub> performance in highly applicable sizes**
  - Designed for seamless replacement of existing 12V 150Ah lead acid batteries in most applications.
- **Ultra-efficient recharge capability**
  - Absorbs >96% of total charge energy supplied (max. 4% lost) every time, even at C1 rates.
  - Resilient against erratic charge & immune to associated lead acid vulnerabilities such as sulfation-induced capacity degradation.
- **Compatible with more than just 12V systems**
  - Up to 4 x batteries can be connected in series for installation in compatible 48V systems.
- **3 year product warranty.**



## Technical Specifications

### GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Nominal voltage	13VDC
Usable capacity	2002Wh @C10, 25°C
Operating voltage range	11.6V ~ 14.2V
Operating temperature range	Charge: 0°C ~ 45°C   Discharge: -20°C ~ 65°C
Cycle life @100% DoD, C10, 25°C	> 2000 cycles (2002Wh)
Cycle life @80% DoD, C10, 25°C	> 3000 cycles (1602Wh)
Cycle life @50% DoD, C10, 25°C	> 5000 cycles (1001Wh)
Dimensions	327 x 172 x 218mm (W x D x H)
Net weight (unboxed)	±20kg
Warranty period	3 years
Terminal size & type	M8 (female)

### VOLTAGE & CURRENT

Bulk voltage (max. operating voltage)	14.2V
Float voltage (continuous charge voltage)	13.9V
Low voltage (min. operating voltage)	11.6V
Charge current	75A recommended (C2)   150A max. (C1)
Discharge current	75A recommended (C2)   150A max. (C1)   300A peak (for < 5 seconds)
Self-discharge rate	< 3% per month
Charge & discharge efficiency	96 ~ 99% @C1

### SAFETY FEATURES

Ingress protection rating	IP56
Current over-charge protection range	150A
Voltage over-charge protection	< 15.6V (auto cut-off at first V <sub>cell</sub> ≥ 3.9V)
Voltage over-discharge protection	> 10V (auto cut-off at first V <sub>cell</sub> ≤ 2.5V)