

### Features

- **LiFePO<sub>4</sub> performance in highly applicable sizes**
  - Designed for seamless replacement of existing 12V 20Ah 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	286Wh @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 (286Wh)
Cycle life @80% DoD, C10, 25°C	> 3000 cycles (229Wh)
Cycle life @50% DoD, C10, 25°C	> 5000 cycles (143Wh)
Dimensions	181 x 77 x 167mm (W x D x H)
Net weight (unboxed)	2.6kg
Warranty period	3 years

#### 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	20A max. (C1)
Discharge current	20A continuous (C1) 40A peak (for max. 30 seconds)
Self-discharge rate	< 3% per month
Charge & discharge efficiency	96 ~ 99% @C1

#### SAFETY FEATURES

Ingress protection rating	IP56
Current over-charge protection range	20A
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)