

## Features

- **Our original product range, refined over 7+ years.**
  - Premium quality LiFePO<sub>4</sub> cells in marine grade stainless steel enclosures. Continuously improved since launch.
- **Designed for at least a decade of sustained operation**
  - Guaranteed to retain >80% of its original capacity after 10 years of daily service (based on 1 cycle / day).
- **Fitted with our proprietary BMMC electronics, to ensure:**
  - Calibrated product-specific balancing & protection.
  - CAN compatibility with a growing list of peripherals.
  - MultiCap™ connectivity: Parallel-connectable to select 52V BlueNova batteries of differing capacities.
- **10 year product warranty.**



## Technical Specifications

### GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Nominal voltage	52VDC
Usable capacity	29 120Wh @C2, 25°C
Operating voltage range	49V ~ 55.2V
Operating temperature range	Charge: 0°C ~ 50°C   Discharge: -10°C ~ 50°C
Cycle life @100% DoD, C2, 25°C	> 3600 cycles (< 20% fade)   7000 cycles (< 40% fade)
Cycle life @80% DoD, C2, 25°C	> 5000 cycles (< 20% fade)   9000 cycles (< 40% fade)
Cycle life @70% DoD, C2, 25°C	> 7000 cycles (< 20% fade)   12000 cycles (< 40% fade)
Dimensions	4 x [800 x 210 x 310mm] (W x D x H)
Net weight (unboxed)	±340kg

### VOLTAGE & CURRENT

Bulk voltage (operational max.)	55.2V
Low voltage (min).	49V
Charge current (max.)	320A continuous
Discharge current (max.)	320A continuous   400A burst (for < 1 minute)   1200A peak (for < 2 seconds)
Charge power (max.)	Maximum: 14 560W (C2)   Recommended: 7 280W (C4)
Discharge power	Maximum: 14 560W (C2)   Recommended: 2 912W (C10)
Self-discharge rate	< 2% per month
Charge/discharge efficiency	96% @C2   98% @C10

### SAFETY FEATURES

Isolator	1200A
Inline fuse	2 x 160A
Current over-charge protection	320A
Voltage over-charge protection	< 58.4V (auto cut-off at first V <sub>cell</sub> ≥ 3.65V)
Voltage over-discharge protection	> 45.6V (auto cut-off at first V <sub>cell</sub> ≤ 2.85V)