

Features

- **Our original product range, refined over 7+ years.**
 - Premium quality LiFePO₄ 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 BMCC 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 ₄)
Nominal voltage	52VDC
Usable capacity	43 680Wh @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	800 x 720 x 125mm (W x D x H)
Net weight (unboxed)	±500kg

VOLTAGE & CURRENT

Bulk voltage (operational max.)	55.2V
Low voltage (min).	49V
Charge current (max.)	720A continuous
Discharge current (max.)	720A continuous 900A burst (for < 1 minute) 1300A peak (for < 2 seconds)
Charge power (max.)	Maximum: 21 840W (C2) Recommended: 10 920W (C4)
Discharge power	Maximum: 21 840W (C2) Recommended: 4 368W (C10)
Self-discharge rate	< 2% per month
Charge/discharge efficiency	96% @C2 98% @C10

SAFETY FEATURES

Isolator	1300A
Inline fuse	3 x 320A
Current over-charge protection	720A
Voltage over-charge protection	< 58.4V (auto cut-off at first V _{cell} ≥ 3.65V)
Voltage over-discharge protection	> 45.6V (auto cut-off at first V _{cell} ≤ 2.85V)