

Features

- **Ultra-resilient LiFePO₄ electrochemistry**
 - Premium quality LiFePO₄ cells ensures high performance throughout a minimum 10 year product service life.
- **Exceptional charge & discharge efficiency**
 - Can be recharged from 0-100% SoC in just 2 hours.
 - Upgraded BMS with active balancing technology.
- **Fitted with our proprietary BMMC electronics, to ensure:**
 - Calibrated product-specific balancing & protection.
 - CAN compatibility with a growing list of peripherals.
- **Inherently safe & user-friendly by design**
 - Modular build ensures safe shipment & easy installation.
- **10 year product warranty.**



Technical Specifications

GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO ₄)
Nominal voltage	614.4VDC
Usable capacity	172 030Wh @C2, 25°C
Operating voltage range	518.4V ~ 691.2V
Temperature range	Active (installed): 5°C ~ 45°C Stored: -20°C ~ 45°C
Humidity range	5% ~ 85% relative humidity (non-condensing)
Cycle life @100% DoD, C2, 25°C	> 3 600 cycles (< 20% fade) > 7 000 cycles (< 40% fade)
Cycle life @80% DoD, C2, 25°C	> 5 000 cycles (< 20% fade) > 9 000 cycles (< 40% fade)
Cycle life @70% DoD, C2, 25°C	> 7 000 cycles (< 20% fade) > 12 000 cycles (< 40% fade)
Dimensions	960 x 790 x 1 865mm (W x D x H)
Net weight (unboxed)	±1090kg total

VOLTAGE & CURRENT

Bulk voltage (operational maximum)	691.2V (3.6V per cell)
Low voltage (operational minimum)	518.4V (2.7V per cell)
Charge current	172A (max.) Recommended ≤ 140A (0.5C)
Discharge current	172A (max.) Recommended ≤ 140A (0.5C)
Charge power	105 670W (max.) Recommended ≤ 86 010W (0.5C)
Discharge power	105 670W (max.) Recommended ≤ 86 010W (0.5C)
Self-discharge rate	< 2% per month
Charge / discharge efficiency	96% @C2, 25°C 98% @C10, 25°C
Max. parallel-connected units	20P (3.44MWh in total)

SAFETY FEATURES

Inline fuse	1 x 450A
Current over-charge protection	172A < BMS-triggered cut-off < 14A
Voltage over-charge protection	BMS-triggered cut-off upon any V _{module} ≥ 57.6V
Voltage over-discharge protection	BMS-triggered cut-off upon any V _{module} ≤ 43.2V