

### Features

- **Ultra-resilient LiFePO<sub>4</sub> electrochemistry**
  - Premium quality LiFePO<sub>4</sub> 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 <sub>4</sub> )
Nominal voltage	512VDC
Usable capacity	143 360Wh @C2, 25°C
Operating voltage range	432V ~ 576V
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)	±905kg total

#### VOLTAGE & CURRENT

Bulk voltage (operational maximum)	576V (3.6V per cell)
Low voltage (operational minimum)	432V (2.7V per cell)
Charge current	172A (max.)   Recommended ≤ 140A (0.5C)
Discharge current	172A (max.)   Recommended ≤ 140A (0.5C)
Charge power	88 060W (max.)   Recommended ≤ 71 680W (0.5C)
Discharge power	88 060W (max.)   Recommended ≤ 71 680W (0.5C)
Self-discharge rate	< 2% per month
Charge / discharge efficiency	96% @C2, 25°C   98% @C10, 25°C
Max. parallel-connected units	20P (2.87MWh 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 <sub>module</sub> ≥ 57.6V
Voltage over-discharge protection	BMS-triggered cut-off upon any V <sub>module</sub> ≤ 43.2V