

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	416VDC
Usable capacity	116 480Wh @C2, 25°C
Operating voltage range	384V ~ 442V
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	960 x 790 x 1865mm (W x D x H)
Net weight (unboxed)	±725kg total
Battery module configuration (excl. BMU)	8S1P 280Ah @52V _{nom} = 14 560Wh per module

VOLTAGE & CURRENT

Bulk voltage (operational max.)	442V
Low voltage (min).	384V
Charge current (max.)	140A continuous @ 25°C (C2)
Discharge current (max.)	140A continuous @ 25°C (C2)
Charge power (max.)	Maximum: 58 240W (C2)
Discharge power	Maximum: 58 240W (C2)
Self-discharge rate	< 2% per month
Charge/discharge efficiency	96% @C2 98% @C10
Max. number of units in parallel	9 x units (±1048kWh total)

SAFETY FEATURES

Inline fuse	1 x 450A
Current over-charge protection	450A
Voltage over-charge protection	< 467.2V (auto cut-off at first V _{cell} ≥ 3.65V)
Voltage over-discharge protection	> 364.8V (auto cut-off at first V _{cell} ≤ 2.85V)