

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 with a guaranteed 4% max. loss of total energy input.
- **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.**



Note : Product illustrated here without external module interconnections. See relevant user manual for assembly.

Technical Specifications

GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO ₄)
Nominal voltage	520VDC
Usable capacity	54 600Wh @C2, 25°C
Operating voltage range	480V ~ 552V
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	725 x 785 x 1450mm (W x D x H)
Net weight (unboxed)	±455kg total
Battery module configuration (excl. BMU)	5S1P 105Ah @104V _{nom} = 10 920Wh per module

VOLTAGE & CURRENT

Bulk voltage (operational max.)	552V
Low voltage (min).	480V
Charge current (max.)	52A continuous @ 25°C (C2)
Discharge current (max.)	52A continuous @ 25°C (C2)
Charge power (max.)	Maximum: 27 300W (C2)
Discharge power	Maximum: 27 300W (C2)
Self-discharge rate	< 2% per month
Charge/discharge efficiency	96% @C2 98% @C10
Max. number of units in parallel	9 x units (±491kWh total)

SAFETY FEATURES

Inline fuse	1 x 150A
Current over-charge protection	150A
Voltage over-charge protection	< 584V (auto cut-off at first V _{cell} ≥ 3.65V)
Voltage over-discharge protection	> 456V (auto cut-off at first V _{cell} ≤ 2.85V)