

### Features

- **Ultra-resilient LiFePO<sub>4</sub> electrochemistry**
  - Built with premium quality LiFePO<sub>4</sub> cells for sustained day-to-day performance in high demand applications.
- **Exceptional charge & discharge efficiency**
  - Can be recharged from 0-100% SoC in just 2 hours.
- **Intelligent integrated electronic BMS featuring:**
  - Advanced active balancing technology.
  - Extensive autonomous protective measures.
  - Serial communication with a wide list of peripherals.
- **Inherently safe & user-friendly by design**
  - Modular layout for safer transportation & easy assembly.
- **10 year product warranty.**



### Technical Specifications

#### GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Nominal voltage	461VDC
Usable capacity	144 754Wh @C2, 25°C
Operating voltage range	403.2V ~ 518.4V
Cycle life @100% DoD, C2, 25°C	>3600 cycles / <20% fade @EoL   >7000 cycles / <40% fade @EoL
Cycle life @80% DoD, C2, 25°C	>5000 cycles / <20% fade @EoL   >9000 cycles / <40% fade @EoL
Cycle life @70% DoD, C2, 25°C	>7000 cycles / <20% fade @EoL   >12000 cycles / <40% fade @EoL
Multi-unit configuration limit	Maximum 1S20P (±2.9MWh max. total capacity)
Dimensions	960 x 790 x 1865mm (W x D x H)
Net weight (unboxed)	±815kg

#### VOLTAGE, CURRENT & POWER SPECIFICATIONS

Maximum (bulk) voltage	518.4V (3.6V per cell)
Minimum voltage	403.2V (2.8V per cell)
Max. charge current	Recommended (C2): 157A   Peak: 200A
Max. discharge current	Recommended (C2): 157A   Peak: 200A
Max. charge power @V <sub>(nom)</sub>	Recommended (C2): 72 377W   Peak: 92 200W
Max. discharge power @V <sub>(nom)</sub>	Recommended (C2): 72 377W   Peak: 92 200W
Charge efficiency	96% @C2, 25°C   98% @C10, 25°C
Self-discharge rate	<2% per month

#### ENVIRONMENTAL & SAFETY SPECIFICATIONS

Ambient temperature range	Operational: 5°C ~ 45°C   Stored: (-20°C) ~ 45°C
Ambient humidity range	5 ~ 85% relative humidity (non-condensing)
Maximum altitude	2000m
Voltage over-charge protection	Auto-disconnect triggered upon any V <sub>(module)</sub> ≥ 57.6V
Voltage over-discharge protection	Auto-disconnect triggered upon any V <sub>(module)</sub> ≤ 44.8V
Current protection	16A > (Auto-disconnect triggered) > 200A
Inline fuse	1 x 450A