

Features

- **Ultra-efficient LiFePO₄ electrochemistry**
 - Capable of 5.2kW (1C) sustained power output.
 - Fully rechargeable in just 2 hours.
- **Durability guaranteed with proper use**
 - Designed to last for 4500+ cycles under recommended operating conditions.
- **Wide scope of peripheral integrations**
 - Serial / CAN-compatible with inverters & relevant modules of industry-leading brands.
 - Compatible with all other 48V pure sine wave inverters configurable to match voltage setpoints.
- **10 year product warranty.**



Technical Specifications

GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO ₄)
Nominal voltage	51.2V
Ah rating	100Ah @C2, 25°C
Installed capacity @V _{nom}	5 120Wh
Cycle life @100% DoD, 1C	2000 cycles (5 200Wh)
Cycle life @100% DoD, C2	3000 cycles (5 200Wh)
Cycle life @80% DoD, C2	4500 cycles (4 160Wh) Recommended continuous use
Internal resistance	≤ 50mΩ @1kHz AC

VOLTAGE

Operating voltage range	48.0V ~ 55.0V
Bulk voltage	55.0V ± 0.3V
Float voltage (recommended)	54.0V
Low voltage	48.0V

CURRENT

Charge current (max.)	50A continuous ≤ 50A recommended
Discharge current (max.)	100A for 1 hour ≤ 70A recommended
Self-discharge rate	Residual capacity: ≤ 3% per month ≤ 15% per year Recover capacity: ≤ 1.5% per month ≤ 8% per year

ENVIRONMENTAL REQUIREMENTS

Operating temperature range	@Charge: 0°C ~ +50°C @Discharge: -10°C ~ +50°C
Recommended operating environment	Temp. range: +15 ~ +35°C Humidity: 5 ~ 75%RH
Storage environment (if stored ≤ 1 month)	Temp. range: -20 ~ +60°C Humidity: 5 ~ 75%RH
Storage environment (if stored ≥ 3 months)	Temp. range: +10 ~ +45°C Humidity: 5 ~ 75%RH

PHYSICAL ATTRIBUTES

Dimensions (excl. front panel & components*)	442mm x 435mm x 135mm (L x W x H)
Dimensions – Front panel (excl. components*)	465mm x 133mm (L x H)
Net weight (unboxed)	43.0kg
Serial communication compatibility	CAN and RS485

* Refers to all fitted components protruding from the front plate of the battery, incl. handles, screws, terminal assembly & connectors.