

Features

- **Ultra-efficient LiFePO₄ electrochemistry**
 - Capable of 5.2kW (1C) sustained power output.
 - Fully rechargeable in less than 2 hours.
- **Inherently resilient against fade**
 - Built with premium grade cells proven to last 7500+ cycles even at near-limit use.
- **Wide scope of peripheral integration**
 - 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

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|--------------------------------------|--|
| 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 | 3000 cycles (5 200Wh) |
| Cycle life @100% DoD, C2 | 5000 cycles (5 200Wh) |
| Cycle life @80% DoD, C2 | 7500 cycles (4 160Wh) Recommended continuous use |
| Internal resistance | ≤ 530mΩ @1kHz AC |

VOLTAGE

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

CURRENT

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|--------------------------|--|
| Charge current (max.) | 60A continuous ≤ 60A recommended |
| Discharge current (max.) | 100A continuous |
| Self-discharge rate | Residual capacity: ≤ 3% per month ≤ 15% per year Recover capacity: ≤ 1.5% per month ≤ 8% per year |

ENVIRONMENTAL REQUIREMENTS

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

PHYSICAL ATTRIBUTES

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|--|-----------------------------------|
| Dimensions (excl. front panel & components*) | 442mm x 520mm x 178mm (L x W x H) |
| Dimensions – Front panel (excl. components*) | 483mm x 178mm (L x H) |
| Net weight (unboxed) | 55.0kg |
| 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.