

DATA SHEET

12.8V100Ah 1280Wh

FEATURES

- Ultra-reliable Lithium Iron Phosphate (LiFePO₄) technology
- Integrated battery management System (BMS)
- Ultra-long cycle life
- Light weight & compact
- Water & dust resistant (IP56)
- Highly durable ABS enclosure
- Drop-in lead acid replacement
- Environment friendly
- Bluetooth App is optional
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No maintenance



Long life



Eco-friendly



Fast charge



GENERAL INFORMATION

| | |
|-------------------------------|--|
| Battery Type | LiFePO ₄ (Lithium Iron Phosphate) |
| Norminal voltage | 12.8V |
| Nominal Capacity | 150Ah@25°C,C10 |
| Nominal Energy | 1920Wh@25°C,C10 |
| Operation Voltage | 10~14.6V |
| Operation Temperature | Charge: 0°C – 45°C Discharge: -20°C – 60° |
| Cycle Life @ 100%DOD | >3000 cycles (1920Wh@25°C,C10) |
| Cycle Life @ 80%DOD | >4000 cycles (1536Wh@25°C,C10) |
| Cycle Life @ 50%DOD | >6000 cycles (960Wh@25°C,C10) |
| Dimension | 327 x 172 x 238mm (W x D x H) |
| Terminal Type | MB |
| Weight | ~16 kg |
| Warranty Period | 5 years |
| Environment Protection | IP56 |

BMS/CHARGE/DISCHARGE

| | |
|---------------------------|--|
| Charge Voltage Max | 14.6V |
| Discharge Cut-off Voltage | 10V |
| Charge Current Max | 100A |
| Discharge Current Max | 100A continues 200A burst (10 seconds) |
| Self-discharge Rate | <2% per month |
| Protection | Over-charge protection Over-discharge protection Over current protection Cell balancing function Over temperature protection |

Empowering energy solutions for street lighting and infrastructure

Sunio is a prominent importer of renewable energy solutions and has a rich history of pioneering sustainable practices and contributing to the clean energy transition in the United Arab Emirates. Founded in 2023 we embarked on a mission to introduce cutting-edge renewable technologies to the UAE market, promoting environmental consciousness and energy independence.

We recognized the growing need for sustainable energy alternatives in the UAE, considering the region's abundant natural resources and the global shift towards clean energy.

We are dedicated to sourcing and importing the latest renewable energy solutions from around the world. Working closely with renowned manufacturers and industry experts, we have curated a diverse portfolio of high-quality products, including solar street light solutions, solar panels, energy storage systems, and other sustainable technologies.

Through strategic partnerships and collaborations, we play a pivotal role in introducing and popularizing renewable energy solutions across the UAE. We actively engage with government entities, private enterprises, and individuals, raising awareness about the benefits of clean energy and facilitating its adoption on a large scale.

Driven by a vision of sustainability and a passion for environmental stewardship, we have actively contributed to the UAE's ambitious clean energy targets. By importing and providing access to advanced renewable technologies, we have helped the UAE reduce its carbon footprint, diversify its energy mix, and foster a more sustainable and resilient economy.

As a trusted importer of renewable energy solutions, we continue to empower individuals, businesses, and organizations to embrace clean energy alternatives, reduce their environmental impact, and contribute to a greener future for the UAE.