

易于扩展

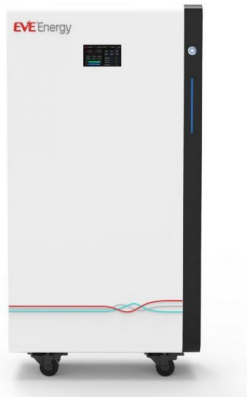
支持多达 32 个并联电池

MAX 32



Solution for Low-voltage Products

EVE Energy



Item	PLW-I-16.0
Battery module	1P16S
Rated energy	16.07kWh
Rated voltage	51.2V
Weight	125±2 kg
Dimension (H * W * D)	(910±2.0)×(500±2.0)×(241±2.0)mm
Standard charge and discharge current	150A
Maximum charge and discharge current	160A
Designed Cycle Life	6000 Cycles ,70%SOH (90%DOD / 25°C)
Communication	RS485/CAN
Storage humidity	<60% RH (No condensation)
IP rating	IP20
Certification	UN38.3
Service life	10 years
Compatible inverters	Megarevo/Goodwe/Growatt/Pylontech/Deye/Solis

EVE 16kWh LiFePO₄ Battery

The **EVE RES-PLW-I-16.0 (51.2V / 314Ah)** is a high-performance LiFePO₄ energy-storage system engineered for residential, commercial, and industrial applications that demand exceptional reliability, long cycle life, and advanced power density. Built with premium-grade LFP chemistry and a robust 250A integrated circuit breaker, this 16.07kWh module delivers outstanding stability and safety for modern solar and backup power systems.

Equipped with a high continuous current rating of **160A** and peak discharge of **200A (≤60s)**, the EVE 16kWh battery supports high-demand loads while maintaining superior thermal performance. It offers a recommended **90% depth of discharge**, providing approximately **14.5kWh of usable energy**, making it an ideal solution for whole-home backup, hybrid solar systems, telecom applications, and scalable commercial storage.

Designed for flexibility, the RES-PLW-I-16.0 supports **up to 15 units in parallel**, enabling system capacities exceeding 240kWh. It features intelligent communication protocols including **CAN, RS485A/B, and RS232**, ensuring seamless integration with premium inverter brands and advanced EMS platforms.

The battery's structural design provides both **wall-mounted and floor-standing installation**, while its durable enclosure meets **IP20** standards. Certified under **UN38.3, IEC62619, and CE**, the EVE 16kWh battery is engineered to meet global safety and performance expectations.

At **Naif Falcon Trading**, we are proud to be an **Authorized Distributor of EVE Energy across the entire Middle East**, supplying genuine EVE lithium batteries with full factory support, warranty coverage, and fast regional delivery. Our technical expertise ensures seamless integration into residential and commercial energy-storage systems, making EVE one of the most trusted solutions for long-life, high-efficiency power storage.

Key Technical for EVE 16.0 KWh

- **Battery Chemistry:** LiFePO₄ (LFP)
- **Nominal Voltage:** 51.2V
- **Capacity:** 314Ah
- **Nominal Energy:** 16.07 kWh
- **Usable Energy:** ≈14.5kWh at 90% DOD
- **Max Continuous Current:** 160A
- **Peak Current:** 200A (≤60s)
- **Parallel Scalability:** Up to 15 units
- **Cycle Life:** ≥6000 cycles @80% DOD
- **Operating Temperature:** Charge 0–60°C / Discharge –20–60°C
- **Communication:** CAN, RS485, RS232
- **Installation:** Wall-mounted or floor-standing

Performance & Technology

Powered by EVE's **MB31 prismatic LiFePO₄ cells (3.2 V 314 Ah)**, this battery ensures:

- Outstanding thermal stability and cycle life
- Built-in BMS for RS485 and CAN inverter communication
- Reliable protection against over-voltage, over-current, and temperature faults
- Modular design for floor or wall mount installation

- Flexible integration with hybrid and off-grid inverters

Applications

- Home and villa energy storage
- Hybrid and off-grid solar systems
- Backup power for small businesses and critical loads

Warranty & Support

Covered under the official **EVE × Nastech Quality Assurance Agreement**, the RES-PLW-I-16 offers a **7-year warranty** or **up to 6000 cycles** (at 80 % DoD, 25–30 °C, 0.5C/0.5C), whichever comes first, with ≥ 70 % capacity retention at end of life.

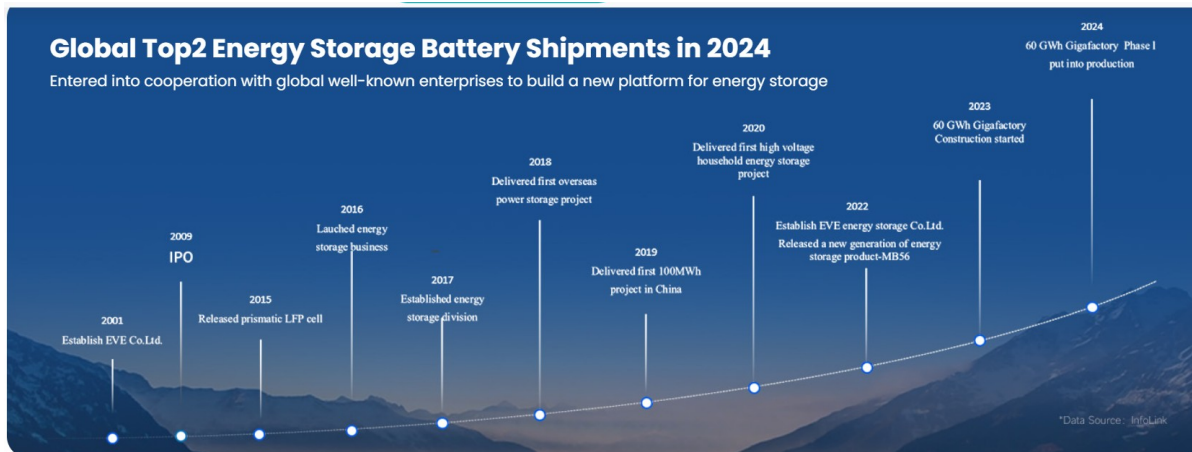
Nastech provides dedicated after-sales and remote technical support for installation, commissioning, and maintenance.

Why EVE

EVE Energy is among the world’s leading manufacturers of lithium cells for ESS, EVs, and industrial power systems. With decades of R&D expertise and global certifications, EVE delivers energy solutions that are safe, scalable, and sustainable—backed by Nastech’s authorized regional distribution and service network.

Warranty

5 Years factory, +2 years Pperformance warranty (product registration needed), total 7 years warranty



ES-PLW-I-16.0 51.2V
High-capacity, Long cycle life

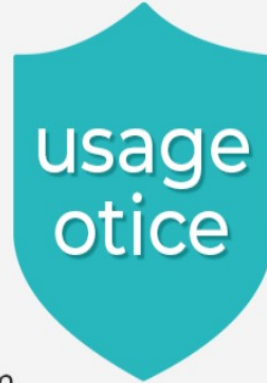
16.07kWh
High Capacity
Long Cycles

Highly compatible
Compatible with mainstream inverters on the market



INSTRUCTIONS FOR SAFE USE OF BATTERIES

INSTRUCTIONS FOR SAFE USE OF BATTERIES



Lithium batteries are products of high profession and technology. Any application and replace of Lithium batteries shall be conducted by professional technologist.

Before using, please learn the corresponding Technique Specification carefully. While using, the following regulations must be observed:

- 1) Do not remove the battery from its original packaging before use.
- 2) Do not place the batteries piecemeal in case of accidental short circuiting.
- 3) Do not heat the battery above 100°C or incinerate it.
- 4) Do not weld directly on the surface of the battery, but use a battery with pre-installed weld pins or leads.
- 5) Do not mix new batteries with used ones, or with batteries of different origins.
- 6) Any disassembly or dissection of batteries is strictly prohibited.
- 7) It is strictly forbidden to short-circuit or reverse connection between the positive and negative terminals.

Warm Tips

- Operations and use of batteries shall strictly abide by EVE Operation Manual and Technique Specification. Misuse of batteries may cause battery heating or even
- EVE shall not be responsible for any accidents caused by battery misuse.
- If you need the "Risk Warning and Fire Safety Notice for Lithium Batteries", please feel free to contact our customer service staff.