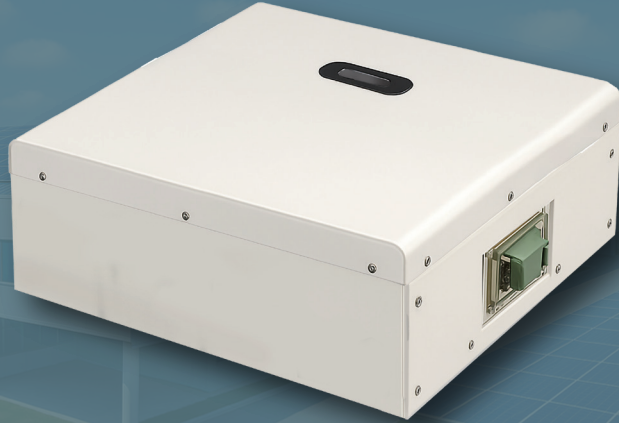


Earth H5



Residential Energy Storage Battery

51.2V/5.12kWh



5,120Wh

51.2V

1P16S

Expandable
up to 20kWh

Residential & Small Business | High-Safety IP65 Energy Storage Battery



Integrated Residential PV + Storage



Small Commercial Energy Storage



Emergency Backup Power

International Safety



IEC 62619

Transportation Certificate



UN 38.3

Taiwan Safety Standard



CNS 62619



CNS 63056



Energy Independence

- Enables energy self-sufficiency, meeting residential behind-the-meter storage needs
- Electricity tariff adjustment and backup power functions
- Compatible with multiple brands of hybrid inverters

Low-Voltage Safety

- 51.2V system voltage ensures safe operation
- Built-in BMS and DC breaker with multi-level protection
- IP65 protection for outdoor applications

Flexible Installation

- Supports wall-mounted or stackable installation
- Customized appearance services
- Panels, colors, logos, and stands can be tailored to customer requirements



Product Specifications

Model	Earth H5
Electrical Specifications	
Cell Chemistry	LiFePO ₄ (Prismatic)
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Nominal Energy	5,000Wh
Battery Configuration	1P16S
Cycle Life	≥ 5,000 (80% SOH@0.5C)
Charge Mode	CC/CV
Charge Voltage	57.6V
Charge Current	50A
Max. Continuous Charge Current	100A
Continuous Discharge Current	50A
Max. Continuous Discharge Current	120A
Max. Charge/Discharge Current	120A(10s), 150A(0.5s)
Discharge Cut-off Voltage	43.2 V
General Specifications	
Dimension (W*D*H)	600 x 175 x 445mm
Weight	52kg
Communication Interface	RS232, RS485, DI/DO 1 Set
Communication Protocol	ModBus RTU
Display	LED
Operating Temperature	Charge: 0°C ~ 55°C / Discharge: -20°C ~ 60°C
Storage Temperature	45°C (within 1 month) / 25°C (within 6 months)
BMS Protection Mechanism	Over-current / Over-temperature / Under-temperature / Over-voltage / Under-voltage Protection & Alarms
Protection Rating	IP65
Flammability Rating	UL94-V0
Compliance Standards	
Cell	UN38.3, IEC62619, UL9540A, RoHS
Battery Module	UN38.3, IEC62619, CNS62619, CNS63056, RoHS