

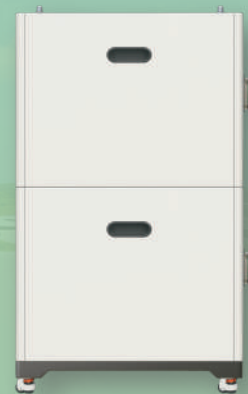
# Earth H5

NoonSpare

## Residential Energy Storage Battery



4,950Wh



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

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Product Specifications

| Model                     | Earth H5                                                                                                  |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Application               | Residential / Small Commercial ESS with hybrid inverters                                                  |
| Electrical Specifications |                                                                                                           |
| Cell Chemistry            | LiFePO4 (Prismatic)                                                                                       |
| Nominal Voltage           | 50.0V                                                                                                     |
| Nominal Energy            | 4,950Wh                                                                                                   |
| Battery Configuration     | 1P16S                                                                                                     |
| Cycle Life                | ≥ 5,000 (@80%, DoD, 25°C)                                                                                 |
| Charge Voltage            | 57.6V                                                                                                     |
| Charge Current            | 50A                                                                                                       |
| Max. Charge Current       | 50A (100A for short-duration charging up to 3 min)                                                        |
| Discharge Current         | 50A                                                                                                       |
| Max. Discharge Current    | 50A (100A for short-duration discharging up to 3 min)                                                     |
| Discharge Cut-off Voltage | 43.2 V                                                                                                    |
| General Specifications    |                                                                                                           |
| Dimension (W*D*H)         | 600 x 175 x 445mm                                                                                         |
| Weight                    | ≤50kg ± 1                                                                                                 |
| Communication Interface   | RS232/RS485/CAN (Standard) Wi-Fi/BT (Customized)                                                          |
| Communication Protocol    | ModBus RTU                                                                                                |
| Display                   | LED                                                                                                       |
| Operating Temperature     | Charge: 0°C ~ 45°C / Discharge: -20°C ~ 55°C                                                              |
| Operating Humidity        | 5%~95% RH (No condensation)                                                                               |
| Storage Temperature       | 45°C (within 1 month) / 25°C (within 6 months)                                                            |
| BMS Protection Mechanism  | Over-current / Over-temperature / Under-temperature /<br>Over-voltage / Under-voltage Protection & Alarms |
| Protection Rating         | IP65                                                                                                      |
| Compliance Standards      |                                                                                                           |
| Cell                      | IEC62619, UL1642, UL9540A, UN38.3                                                                         |
| Battery Module            | IEC62619, CNS62619, CNS63056, RoHS, UN38.3                                                                |