



# IntelliHouse

## 5-16kWh Wall/Floor-Mounted Low-Voltage Energy Storage System (ESS)

Slim Wall/Floor -Mounted Storage  
Durable & Space-Saving

- Uses A+ grade cells,  $\geq 8,000+$  cycle life <sup>①</sup>
- Built-in emergency fire suppression with multi-layer safety protection
- Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- Supports 160% usable PV power, maximizing solar energy utilization
- Supports 200% overload in off-grid mode, ensuring stable startup of loads
- Supports seamless on-grid and off-grid switching with transfer times  $< 10\text{ms}$
- Designed for all environments: IP66 protection & C5-M anti-corrosion. Optional intelligent heating enables operation down to  $-20^{\circ}\text{C}$
- Supports up to 8 units in parallel, expanding capacity up to 128kWh
- Solis AI – smart energy management with generator support
- Supports OTA remote upgrades for efficient operation and maintenance

IntelliHouse 10 kWh ESS



IntelliHouse 5kWh ESS



IntelliHouse 16 kWh ESS



## DATASHEET

## IntelliHouse-(5-16)kWh

| Models                                      | 5kWh                                                                                                                                                                                                                                                                | 10kWh               | 16kWh              |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| Performance                                 |                                                                                                                                                                                                                                                                     |                     |                    |
| Battery type                                | LiFePO <sub>4</sub>                                                                                                                                                                                                                                                 |                     |                    |
| Nominal energy                              | 5 kWh                                                                                                                                                                                                                                                               | 10 kWh              | 16 kWh             |
| Operating voltage                           | 44.8-57.6 V                                                                                                                                                                                                                                                         |                     |                    |
| Cell capacity                               | 100 Ah                                                                                                                                                                                                                                                              |                     | 314 Ah             |
| Recommended charge & discharge current rate | 0.5 C/0.5 C                                                                                                                                                                                                                                                         |                     |                    |
| Max. charge & discharge current rate        | 0.5 C/1 C                                                                                                                                                                                                                                                           |                     | 0.5 C/0.5 C        |
| Recommended charge & discharge current      | 50 A                                                                                                                                                                                                                                                                | 100 A               | 157 A              |
| Max. discharge current                      | 100 A                                                                                                                                                                                                                                                               | 200 A               | 157 A              |
| Depth of discharge                          | > 95%                                                                                                                                                                                                                                                               |                     |                    |
| Display                                     | SOC indicator, Status indicator                                                                                                                                                                                                                                     |                     |                    |
| Communication                               | CAN/RS485                                                                                                                                                                                                                                                           |                     |                    |
| Cycle life <sup>①</sup>                     | ≥8000                                                                                                                                                                                                                                                               |                     |                    |
| Protection                                  |                                                                                                                                                                                                                                                                     |                     |                    |
| Over/under voltage protection               | Yes                                                                                                                                                                                                                                                                 |                     |                    |
| Over current protection                     | Yes                                                                                                                                                                                                                                                                 |                     |                    |
| Over/under temperature protection           | Yes                                                                                                                                                                                                                                                                 |                     |                    |
| DC breaker                                  | Yes                                                                                                                                                                                                                                                                 |                     |                    |
| Fire protection function                    | Yes                                                                                                                                                                                                                                                                 |                     |                    |
| General Specification                       |                                                                                                                                                                                                                                                                     |                     |                    |
| Dimensions (W × H × D)                      | 470 × 655 × 175 mm                                                                                                                                                                                                                                                  | 470 × 1075 × 175 mm | 470 × 950 × 264 mm |
| Weight                                      | 47 kg                                                                                                                                                                                                                                                               | 90 kg               | 122 kg             |
| Cooling                                     | Natural convection                                                                                                                                                                                                                                                  |                     |                    |
| Ingress protection                          | IP66                                                                                                                                                                                                                                                                |                     |                    |
| Anti-corrosion class                        | C5M                                                                                                                                                                                                                                                                 |                     |                    |
| Operating ambient temperature range         | 0~55 °C / -20~55 °C (Smart heating function, optional)                                                                                                                                                                                                              |                     |                    |
| Storage temperature range                   | -10~45 °C                                                                                                                                                                                                                                                           |                     |                    |
| Relative humidity range                     | 5~95 %                                                                                                                                                                                                                                                              |                     |                    |
| Max. operating altitude                     | 4000 m                                                                                                                                                                                                                                                              |                     |                    |
| Installation method                         | Floor standing / Wall-mounted                                                                                                                                                                                                                                       |                     |                    |
| Scalability                                 | Up to 8 units in parallel                                                                                                                                                                                                                                           |                     |                    |
| Compatible inverters                        | S6-EH1P(3-6)K-L-EU, S5-EH1P(3-6)K-L(Smart), S6-EH1P(3-10)K-L-PLUS, S6-EH1P(9.9-18)K03-NV-YD-L, S6-EH2P(5-8)K02-SV-YD-L, S6-EH2P(9.6-16)K03-SV-YD-L-US, S6-EH3P(5-18)K02-NV-YD-L, S6-EH3P(7-10)K02-LV-YD-L, S6-EA1P(3.6-6)K-L, S6-EO1P(4-6)K-48, S6-EO1P(4-5)K-48-EU |                     |                    |
| Standard Compliance                         |                                                                                                                                                                                                                                                                     |                     |                    |
| Certificates                                | IEC 62619, IEC63056, UN 38.3, EN/IEC61000-6-1/2/3/4, RoHS, REACH                                                                                                                                                                                                    |                     |                    |

① 5/10kWh: Provided by battery cell manufacturer based on cell test condition of 25°C, 0.2C charge and discharge rate, 80% DOD and SOH = 70%.

16kWh: Provided by battery cell manufacturer based on cell test condition of 25°C, 0.5P charge and discharge rate, 100% DOD and SOH = 70%.