



SolisStorage

# IntelliHome

## Wall/Floor Mounted Battery

Low voltage battery | IP66

Expandable up to 8 units in parallel (Max 40/80/128 kWh)



10 kWh

5 kWh

16 kWh

### Recommended Combinations

| Roof Area         | 150 m <sup>2</sup> | 125 m <sup>2</sup> | 100 m <sup>2</sup> | 75 m <sup>2</sup> | 60 m <sup>2</sup> | 50 m <sup>2</sup> | 30 m <sup>2</sup> |
|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| PV System Size    | 30 kWp             | 25 kWp             | 20 kWp             | 15 kWp            | 12 kWp            | 10 kWp            | 6 kWp             |
| Inverter Capacity | 20 kW              | 20 kW              | 15 kW              | 12 kW             | 10 kW             | 8 kW              | 5 kW              |
| Battery Capacity  | 40 kWh             | 40 kWh             | 30 kWh             | 20 kWh            | 20 kWh            | 16 kWh            | 10 kWh            |



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DATASHEET

IntelliHome-(5-16)kWh-OD

| 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                          | Max. 100 % DOD                                                                                                                                                                                                                                                      |                 |                |             |
| Display                                     | SOC indicator, Status indicator                                                                                                                                                                                                                                     |                 |                |             |
| Communication                               | CAN/RS485                                                                                                                                                                                                                                                           |                 |                |             |
| Cycle life <sup>①</sup>                     | ≥6000                                                                                                                                                                                                                                                               |                 |                |             |
| Protection                                  |                                                                                                                                                                                                                                                                     |                 |                |             |
| Over/under voltage protection               | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| Over current protection                     | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| Over/under temperature protection           | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| DC breaker                                  | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| DC overcurrent fuses                        | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| Aerogel thermal insulation plate            | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| Fire protection function                    | Yes                                                                                                                                                                                                                                                                 |                 |                |             |
| Explosion release valves                    | 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         | -20~55 °C (Smart heating function)                                                                                                                                                                                                                                  |                 |                |             |
| 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, IEC 63056, ISO13849, VDE 2510-50, UN 38.3, EN/IEC61000-6-1/2/3/4, IEC 60730-1, IEC 60529(IP), RoHS, REACH                                                                                                                                                |                 |                |             |

① This is provided by the battery cell manufacturer. Based on cell test condition of 25° C, 0.2C charge and discharge rate and 70% EOL at 100% DOD for 5kWh/10kWh, and 25° C, 0.5C charge and discharge rate and 70% EOL at 100% DOD for 16kWh.