



IntelliHome

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

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

- Uses A+ grade cells, $\geq 8,000+$ (5kWh/10kWh), $\geq 10,000+$ (16kWh) cycle life ^①
- Standard with five-layer hardware redundancy safety protection
- Supports a max. 21A string input current, perfectly matching 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°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

IntelliHome 10 kWh ESS



IntelliHome 5kWh ESS



IntelliHome 16 kWh ESS



DATASHEET

IntelliHome-(5-16)kWh-OD

Models	5kWh		10kWh	16kWh
Performance				
Battery type	LiFePO ₄			
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 ^①	≥8000		≥10000	
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-E01P(4-6)K-48, S6-E01P(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 5/10kWh: Provided by battery cell manufacturer based on cell test condition of 25°C, 0.2C charge and discharge rate, 90% 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 = 60%.