SolisStorage

IntelliHome

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

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

- Uses A+ grade cells, ≥8,000+ (5kWh/10kWh), ≥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 <10ms
- 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 16 kWh ESS



IntelliHome 10 kWh ESS



IntelliHome 5kWh ESS

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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-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 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%.