SolisStorage

FlexHome
Stackable Battery

High voltage battery | IP66
Expandable up to 4 units in parallel (Max 160 kWh)

Recommended Combinations

Roof Area	150 m²	125 m²	100 m²	75 m²	60 m²	50 m²
PV System Size	30 kWp	25 kWp	20 kWp	15 kWp	12 kWp	10 kWp
Inverter Capacity	20 kW	20 kW	15 kW	12 kW	10 kW	8 kW
Battery Capacity	40 kWh	40 kWh	30 kWh	20 kWh	20 kWh	15 kWh

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DATASHEET

FlexHome-(15-40)kWh-H

Models	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Performance Parameters						
Number of battery modules	3	4	5	6	7	8
Battery type	$LiFePO_4$					
Nominal capacity	15 kWh	20 kWh	25 kWh	30 kWh	35 kWh	40 kWh
Operating voltage	134.4 - 172.8 V	179.2 - 230.4 V	224 - 288 V	268.8 - 345.6 V	313.6 - 403.2 V	358.4 - 460.8 V
Rated cell capacity	100 Ah					
Recommended charge/discharge rate	0.5C					
Recommended charge/discharge current	50 A					
Maximum sustainable charging current	50 A					
Maximum sustainable discharge current	50 A					
Depth of discharge (DOD)	100%					
Charging temperature range	-20 ~ 55°C (with heating function) (> 45°C, derating)					
Discharging temperature range	-20 ~ 55°C (> 45°C, derating)					
Communication interface	CAN/RS485					
Cycle life ①	> 6000 Cycles / 10 Years					
Expansion capability	Up to 4 units in parallel					
Standard Parameters						
Cooling method	Natural cooling					
Certifications & safety standards	IEC 62619, IEC 63056, ISO13849, VDE 2510-50, UN 38.3, EN/IEC61000-6-1/2/3/4, IEC 60730-1, IEC/EN 62477-1:2022 IEC 60529 (IP), IEC62040, CEC list					
Compatible inverters	S6-EH3P(3-12)K-H/S6-EH3P(12-20)K-H/S6-EH3P(12-20)K-ND-H/S6-EH3P(8-12)K-LV-ND-H					
Dimensions (W × H × D)	800 × 860 × 285 mm	800 × 1050 × 285 mm	800 × 1240 × 285 mm	800 × 1430 × 285 mm	800 × 1620 × 285 mm	800 × 1810 × 285 mm
Weight	170 kg	220 kg	270 kg	320 kg	370 kg	420 kg
Ingress protection	IP66					
Installation method	Floor-mounted (Default) / Wall-mounted					
Recommended operating temperature	10 ~ 45°C					
Maximum operating altitude	≤ 4000 m					
Operating ambient humidity	5 ~ 95% RH					
Control Box Parameters						
Operating voltage	80 - 1000 V					
Recommended charge/discharge current	50 A					
Dimensions (W × H × D)	800 × 230 × 285 mm					
Weight	15 kg					
Communication interface	CAN/RS485					

Preliminary

① Test conditions: @25°C0.2C/0.2C, 70%EOL@100%DOD.

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