SolisStorage

FlexHome
Stackable Battery

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

5-40 kWh

Recommended Combinations

Roof Area	150 m²	125 m²	100 m²	75 m²	60 m²	50 m²	30 m²
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	15 kWh	10 kWh

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DATASHEET

FlexHome-(5-40)kWh-L

Models	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Performance Parameters								
Number of battery modules	1	2	3	4	5	6	7	8
Battery type	$LiFePO_4$							
Nominal capacity	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh	35 kWh	40 kWh
Operating voltage	44.8 - 57.6 V							
Rated cell capacity	100 Ah	200 Ah	300 Ah	400 Ah	500 Ah	600 Ah	700 Ah	800 Ah
Recommended charge/discharge rate	0.5C							
Recommended charge/discharge current	50 A	100 A	150 A	200 A	250 A	300 A	320 A	320 A
Maximum sustainable charging current	50 A	100 A	150 A	200 A	250 A	300 A	320 A	320 A
Maximum sustainable discharge current	100 A	200 A	200 A	200 A	200 A	200 A	200 A	200 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 60529 (IP), INMETRO 140							
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(8-18)K02-NV-YD-L/S6-EH3P(7-10)K02-LV-YD-L/ S5-EA1P3K-L/S6-EA1P(3.6-6)K-L/S6-EO1P(4-6)K-48/S6-EO1P(4-5)K-48-EU							
Dimensions (W × H × D)	800 × 480 × 285 mm	800 × 670 × 285 mm	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	70 kg	120 kg	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	25 - 60 V							
Recommended charge/discharge current	210 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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