SolisStorage

DATASHEET

EverCore-(100-261)kWh-(50-125)kW-NV

Models	100kWh-50kW	120kWh-60kW	261kWh-125kW
System			
Rated energy capacity	100.5 kWh	120.6 kWh	261.2 kWh
Max. cycle rate	0.5 P		
Max. cycle efficiency ①	89%		
Usable energy capacity ②	99.3 kWh	119.2 kWh	258.3 kWh
Dimensions (W × H × D)	1250 × 2030 × 1540 mm		1850 × 2230 × 1600 mm
Dimensions (without inverter) (W × H × D)	950 × 2030 × 1540 mm		1400 × 2230 × 1600 mm
Weight	1490 kg (Cabinet) + 73 kg (Inverter)	1630 kg (Cabinet) + 73kg (Inverter)	2900 kg (Cabinet) + 170 kg (Inverter)
Operating temperature range	-25 ~ +55°C		
Storage temperature range	0 ~ +40°C		
Operating humidity range	≤ 95% (non-condensing)		
Max. operation altitude	4000 m		
System temperature control mode	Industrial-grade air-conditioning (Cabinet); Air cooling (Pack); Intelligent fan-cooling (Inverter)		
Fire suppression mode	Default: Aerosol, Explosion relief valve, Fire water inlet, Audible and visual alarm Optional: Flammable gas detector, Explosion relief panel, Explosion-proof exhaust fan		
Ingress protection	IP55 (Cabinet) + IP66 (Inverter)		
Anti-corrosion class(Battery Cabinet)	C4/C5 (Optional)		
Anti-corrosion class (Inverter)	C5		
Noise (rated operating condition)	70 dB(A) @ 1 m		75 dB(A) @ 1 m
Lightning protection	Type II (AC port), Type II (PV&Battery)		
Protection mode	Anti-islanding protection, residual current detection, insulation resistance detection, AC overcurrent protection, and AC cable connection protection		
Certification standards	IEC62619, IEC61000-6/2/4, IEC62040, IEC63056, IEC62477, UN38.3		
Battery			
Cell type	LFP 3.2 V / 314 Ah		
Cell cycle life ③	8000		
System battery configuration	1P100S	1P120S	1P260S
Rated voltage	320 V	384 V	832 V
Operating voltage range	290 ~ 360 V	348 ~ 432 V	754 ~ 936 V
Rated DC current	157 A		
Number of battery packs	5	6	13
Battery pack capacity	20.1 kWh		
Battery pack weight	138 kg		
Inverter			
Inverter model	S6-EH3P50K-H(21A)	S6-EH3P60K-H(21A)	S6-EH3P125K10-NV-YD-H
Rated output power	50 kW	60 kW	125 kW
Max. apparent output power@On-grid	50 kVA	60 kVA	125 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rating grid frequency	50 Hz / 60 Hz		
AC grid frequency range	45 - 55 Hz / 55 - 65 Hz		
Rated output current	76 A / 72.2 A	91.2 A / 86.6 A	189.9 A / 180.4 A
Max. apparent output power@Off-grid	1.5 times of rated power, 10 s; 1.6 times of rated power, 2 s		1.6 times of rated power, 200 ms
Back-up switch time	< 10 ms		
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi / THDv (@linear load)	< 2% / < 3%		
Max. usable PV input power	100 kW		250 kW
Recommended max. PV array size	100 kW		250 kW
Max. input voltage	1000 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	150 - 850 V		150 - 950 V
Max. input current	4 × 42 A		10 × 42 A
Max. short circuit current	4 × 60 A		10 × 60 A
MPPT number / Max. input strings number	4 / 8		10 / 20
Communication	Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×3, DO×3; Optional: 4G		Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×5, DO×4; Optional: 4G
Max. parallel quantity (off-grid)	10		

Preliminary

① Rated operating condition: Based on cell test condition of 25±2°C, 0.5P charge and discharge rate, and the AC output voltage is 380 or 400 Vac.
② 30°C~35°C, 0.3C, 100%DOD, within one month from the date of manufacture.
③ This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5P charge and discharge rate and SOH=70%.