SolisStorage

FlexCore-ID
Stackable Series

High voltage battery | IP20
60-261 kWh per cluster, expandable up to 6 clusters in parallel



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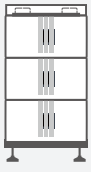
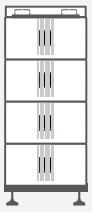
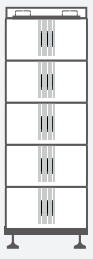
DATASHEET

FlexCore Indoor Stackable Series

Hybrid Inverter	S6-EH3P 30K-H	S6-EH3P 40K-H	S6-EH3P 50K-H	S6-EH3P 60K-H	S6-EH3P 80K10-NV-YD-H	S6-EH3P 100K10-NV-YD-H	S6-EH3P 125K10-NV-YD-H
PV Input							
Max. recommend PV array power	60 kW	80 kW	100 kW	100 kW	160 kW	200 kW	250 kW
Max. PV input voltage	1000 V						
Rated PV input voltage	600 V						
MPPT voltage range	150 - 850 V				150 - 950 V		
Full load MPPT voltage range	500 - 850 V		600 - 850 V		500 - 900 V		
Start-up voltage	180 V						
MPPT number / Max. input strings number	3 / 6	4 / 8			10 / 20		
Max. input current per MPPT	42 A						
Max. input short circuit current per MPPT	60 A						
AC Input (on-grid)							
Rated current	91.2 A / 86.6 A	121.6 A / 115.4 A	152 A / 144.4 A	152 A / 152 A	250 A		
Rated voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V						
Rated frequency	50 Hz / 60 Hz						
AC Output (on-grid)							
Rated power	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	125 kW
Max. appearent power	30 kVA	40 kVA	50 kVA	60 kVA	80 kVA	100 kVA	125 kVA
Rated current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A	121.6 A / 115.5 A	151.9 A / 144.3 A	189.9 A / 180.4 A
Rated voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V						
Rated frequency	50 Hz / 60 Hz						
Power factor	<0.99 (0.8 leading to 0.8 lagging)						
THDi (@linear load)	< 3%						
AC Output (off-grid)							
Rated power	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	125 kW
Max. apparent output power	45 kW, 10 s	60 kW, 10 s	75 kW, 10 s	90 kW, 10 s	128 kW, 10 s	160 kW, 10 s	175 kW, 10 s
Back-up switch time	< 10 ms						
Rated voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V						
Rated frequency	50 Hz / 60 Hz						
THDv (@linear load)	< 3%				< 2%		
Generator Input (off-grid)							
Max. input power	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	125 kW
Rated current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A	121.6 A / 115.5 A	151.9 A / 144.3 A	189.9 A / 180.4 A
Rated voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V						
Rated frequency	50 Hz / 60 Hz						
Battery Input							
Battery type	Li-ion						
Voltage range	150 - 800 V				300 - 950 V		
Number of battery ports	2						
Max. charge / discharge current of each port	80 A				100 A		
General Data							
Ingress protection	IP66						
Operating temperature range	-25 ~ 60°C						
Max. operating altitude	4000 m				3000 m		
Dimensions(W × H × D)	530 × 880 × 290 mm				1174 × 814 × 400 mm		
Weight	76 kg				170 kg		
Noise level	< 65 dB				< 70 dB		
Communication	CAN / RS485 / Wi-Fi / Bluetooth / 4G (optional)						
Max. parallel quantity	10 units						
Max. efficiency	97.7%				97.5%		
EU efficiency	97.3%				97.2%		
MPPT efficiency	99.9%				99.9%		
Battery charge/discharge efficiency	98.5 / 97.5%				97.0 / 97.0%		

Preliminary

Battery	FlexCore-ID-(60-261)kWh		
Battery Pack			
Battery pack model	FlexCore-ID-BAT20kWh		
Battery type	LFP		
Battery cell	314 Ah		
Cell cycle life	25±2°C, 0.5P, EOL70%≥8000		
Configuration	1P20S		
Rated voltage	64 V		
Rated charge / discharge current	157 A		
Energy	20.09 kWh		
Fire suppression mode	Pack level aerosol		
Dimensions (H × W × D)	308 × 532 × 955 mm (include support rack)		
Weight	≈ 155 kg		
Control Box			
Control box model	FlexCore-ID-CB250A		
Max. current	250 A		
Dimensions (H × W × D)	350 × 532 × 1000 mm		
Weight	60 kg		
Communication	CAN / LAN / 4G / WIFI		
Cluster			
Cluster model	FlexCore-ID-(60~261)kWh		
Number of packs in series	3~13		
Energy range per cluster	60~261 kWh		
Max. parallel quantity	6 clusters in parallel ≈ 1.5 MWh		
Rated charge / discharge current	157 A		
Rated charge/discharge power	0.5P		
Operating temperature range	Discharge: -20~55°C; Charge: 0~55°C		
Storage temperature range	-20~45°C (1 month); 0~35°C (3~12 months)		
Operating humidity range	5~85%		
Communication	CAN / LAN / 4G / WIFI		
Max. operating altitude	≤ 4000 m		
Ingress protection	IP20		
Thermal management	Smart Air Cooling		
Anti-corrosion class	C3		
Installation location	Stack-mounted, Indoor		
Noise level	< 75 dB		
Certification standards	IEC/EN 62619, IEC 63056, IEC/EN 62477-1, EN 61000-6-2/4, UN38.3		
			
Number of packs per stand	3	4	5
Total energy	60.27 kWh	80.36 kWh	100.45 kWh
Dimensions(H × W × D) (with base&top cover)	1050 × 532 × 955 mm	1330 × 532 × 955 mm	1610 × 532 × 955 mm
Total weight	≈ 470 kg	≈ 625 kg	≈ 780 kg

Preliminary

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