

DATASHEET

S6-EH3P(3-10)K-H

Models	5K2	6K2	8K2	10K2	3K-EU	4K-EU	5K-EU	6K-EU	8K-EU	10K-EU	
Input DC (PV side)											
Recommended max. PV array size	10 kW	12 kW	16 kW	20 kW	6 kW	8 kW	10 kW	12 kW	16 kW	20 kW	
Max. usable PV input power	8 kW	9.6 kW	12.8 kW	16 kW	4.8 kW	6.4 kW	8 kW	9.6 kW	12.8 kW	16 kW	
Max. input voltage					1000 V						
Rated voltage					600 V						
Start-up voltage					160 V						
MPPT voltage range					200 - 850 V						
Max. input current	16 A / 16 A				16 A / 16 A		16 A / 16 A / 16 A			4 × 16 A	
Max. short circuit current	24 A / 24 A				24 A / 24 A		24 A / 24 A / 24 A			4 × 24 A	
MPPT number / Max. input strings number	2 / 2				2 / 2		3 / 3			4 / 4	
Battery											
Battery module models	SolisStor-(15-40)kWh-H-ST-66										
Number of battery modules	1 ~ 8										
Battery voltage range	120 - 600 V ^①										
Battery type	Li-ion										
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	
Max. charge / discharge current	25 A		50 A			25 A			50 A		
Communication	CAN / RS485										
Output AC (Grid side)											
Rated output power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA	10 kVA	
Rated grid voltage	3/N/PE, 380 V / 400 V										
Rated grid frequency	50 Hz / 60 Hz										
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	
Max. output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)										
THDi	< 3%										
Input AC (Grid side)											
Input voltage range	304 - 437 V / 320 - 460 V										
Max. input current	11.4 A / 10.9 A	13.6 A / 13.0 A	18.2 A / 17.4 A	22.7 A / 21.7 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13.0 A	18.2 A / 17.4 A	22.7 A / 21.7 A	
Rated grid frequency	50 Hz / 60 Hz										
Frequency range	45 - 55 Hz / 55 - 65 Hz										
Output AC (Back-up)											
Rated output power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power	1.6 times of rated power, 60 s										
Back-up switch time	< 10 ms										
Rated output voltage	3/N/PE, 380 V / 400 V										
Rated frequency	50 Hz / 60 Hz										
Rated output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	
THDv (@linear load)	< 2%										
Efficiency											
Max. efficiency	96.50%	97.00%	97.50%	97.90%	95.50%	96.00%	96.50%	97.00%	97.50%	97.90%	
EU efficiency	96.77%	97.10%	97.41%	97.51%	95.51%	96.03%	96.77%	97.10%	97.41%	97.51%	
BAT charged by PV max. efficiency	98.37%	98.45%	98.22%	98.31%	95.96%	96.57%	98.37%	98.45%	98.22%	98.31%	
BAT charged / discharged to AC max. efficiency	97.32%	97.34%	97.50%	97.50%	97.04%	97.29%	97.32%	97.34%	97.50%	97.50%	
Protection											
Anti-islanding protection					Yes						
Output over current protection					Yes						
Short circuit protection					Yes						
Surge protection	/				DC Type II / AC Type II (optional)						
Integrated AFCI 2.0					Optional						
Integrated DC switch					Yes						
DC reverse-polarity protection					Yes						
PV over voltage protection					Yes						
Battery reverse protection					Yes						
General Data											
Max. allowable phase imbalance (grid & back-up)					100%						
Max. power per phase (grid & back-up)					50% rated power						
Dimensions (W × H × D)	600 × 500 × 210 mm		600 × 500 × 230 mm		600 × 500 × 210 mm			600 × 500 × 230 mm			
Weight	27.6 kg		30.2 kg		26.4 kg		27.6 kg		30.2 kg		
Topology	Transformerless										
Self-consumption (night)	< 25 W										
Operating ambient temperature range	-25 ~ +60°C										
Relative humidity	0 - 100%										
Ingress protection	IP66										
Noise emission (typical)	< 46.9 dB(A)										
Cooling concept	Natural cooling										
Max. operation altitude	4000 m										
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, EK18										
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3										
Features											
PV connection	MC4 connector										
Battery connection	Quick connection plug										
AC connection	Quick connection plug										
Display	LED indicator & Bluetooth + APP										
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN										

① Supports max. battery voltage to 700 V.