

DATASHEET

S6-EH3P(7-10)K02-LV-YD-L

Models	7K	8K	9K	10K
Input DC (PV side)				
Recommended max. PV array size	14 kW	16 kW	18 kW	20 kW
Max. usable PV input power	11.2 kW	12.8 kW	14.4 kW	16 kW
Max. input voltage	1000 V			
Rated voltage	550 V			
Start-up voltage	160 V			
MPPT voltage range	200 - 850 V			
Max. input current	20 A / 40 A			21 A / 42 A
Max. short circuit current	30 A / 50 A			30 A / 50 A
MPPT number / Max. input strings number	2 / 3			
Battery				
Battery module models	SolisStor-5/10kWh-L-WM-20-SE; SolisStor-5/10/16kWh-L-WM-20; SolisStor-5/10/16kWh-L-WM-66; SolisStor-(5-40)kWh-L-ST-66			
Number of battery modules	1 ~ 8			
Battery voltage range	40 - 60 V			
Battery type	Li-ion / Lead-acid			
Max. charge / discharge current	156 A	178 A	200 A	235 A
Number of battery ports	2			
Max. charge / discharge current of each port	150 A			
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	7 kW	8 kW	9 kW	10 kW
Max. apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Rated grid voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input current	27.6 A / 26.3 A	31.5 A / 30.1 A	35.4 A / 33.8 A	39.4 A / 37.6 A
Input Generator				
Max. input power	7 kW	8 kW	9 kW	10 kW
Max. input current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Rated input voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated input frequency	50 Hz / 60 Hz			
Output AC (Back-up)				
Rated output power	7 kW	8 kW	9 kW	10 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Max. continuous output current	18.4 A	21 A	23.5 A	26.3 A
Max. continuous AC passthrough current	50 A			
THDv (@linear load)	< 3%			
Efficiency				
Max. efficiency	96.2%			
EU efficiency	95.4%			
BAT charged by PV / AC max. efficiency	95.0% / 94.4%			
BAT discharged to AC max. efficiency	94.5%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
DC reverse-polarity protection	Yes			
Surge protection	DC Type II / AC Type II (Optional)			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
Integrated AFCI 2.0	Optional (Brazil: Yes)			
Integrated DC switch	Yes			
General Data				
Max. power per phase	50% rated power			45% rated power
Dimensions (W × H × D)	430 × 660 × 305 mm			
Weight	42 kg			
Topology	Non-isolated			
Self-consumption (night)	< 30 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 65 dB(A)			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	Philippin, ORDINANCE (PORTARIA) No.140 and No. 515			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3-4, EMC			
Features				
DC connection	MC4 Quick connection plug (PV) & Screw terminal (Battery)			
AC connection	Screw terminal			
Display	7.0" LCD display & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			