

7-10K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

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

Three Phase | Low Voltage

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

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DATASHEET

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			42 A / 42 A
Max. current per DC input	20 A			21 A
Max. short circuit current	30 A / 50 A			50 A / 50 A
MPPT number / Max. input strings number	2 / 3			2 / 4
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	156 A	178 A	200 A	235 A
Number of battery port / Number of BMS port	2 / 1			
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 ①	3/(N)/PE, 127 V / 220 V, 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 power	10.5 kW	12 kW	13.5 kW	15 kW
Input voltage range	187 - 253 V / 196 - 265 V			
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
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 ①	< 10 ms			
Rated output voltage	3/(N)/PE, 127 V / 220 V, 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. AC passthrough current	50 A			
THDv (@linear load)	< 3%			
Input AC (Generator side)				
Max. input power	7 kW	8 kW	9 kW	10 kW
Rated 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, 133 V / 230 V			
Rated input frequency	50 Hz / 60 Hz			
Efficiency				
Max. efficiency	96.2%			
EU efficiency	94.9%			
BAT charged by PV / AC max. efficiency	95.6% / 92.6%			
Battery discharged efficiency	92.9%			
Protection				
Surge protection	DC Type II / AC Type II (Optional)			
Output over current protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Integrated PV switch	Yes			
DC reverse-polarity protection	Yes			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
Integrated AFCI 2.0	Optional (Brazil: Yes)			
Anti-islanding protection	Yes			
General Data				
Max. power per phase	50% rated power			45% rated power
Dimensions (W × H × D)	430 × 660 × 305 mm			
Weight	42 kg			
Inverter topology	Non-isolated (PV), Isolated (Battery)			
Self-consumption	< 30 W			
Operating 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 ②	Philippin, ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3-4			
Features				
PV connection	MC4 Quick connection plug			
Battery connection	Screw terminal			
AC connection	Screw terminal			
Display	7.0" LCD display & Bluetooth + APP			
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×4; Optional: 2G/3G/4G			

① From On-Grid Mode to Off-Grid Mode: For a single inverter system, switchover time <10ms. For a parallel system which consists of up to 6 inverters, switchover time <20ms. If customer wishes to connect more than 6 inverters in parallel, please contact Solis Technical Team.

② This certification applies to the product series as a whole. For certification status of specific models, please contact our sales team.