



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 touchscreen, 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		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 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 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	31.5 A	35.4 A	39.4 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			