

5-8K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH2P(5-8)K02-SV-YD-L

Split 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 split-phase unbalanced output, each phase supports output max. 50% rated inverter power
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, for expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- PV only off grid mode, to reduce the initial investment cost
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, adapting to harsh ambient conditions

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DATASHEET

Models	5K	6K	7.5K	8K
Input DC (PV side)				
Recommended max. PV array size	10 kW	12 kW	16 kW	16 kW
Max. usable PV input power	8 kW	9.6 kW	12.8 kW	12.8 kW
Max. input voltage	500 V			
Rated voltage	330 V			
Start-up voltage	90 V			
MPPT voltage range	90 - 435 V			
Max. input current	21 A / 21 A	21 A / 42 A	42 A / 42 A	
Max. current per DC input	21 A			
Max. short circuit current	24 A / 24 A	24 A / 48 A	48 A / 48 A	
MPPT number / Max. input strings number	2 / 2	2 / 3	2 / 4	
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	112 A	135 A	190 A	190 A
Number of battery port / Number of BMS port	1 / 1			
Communication	RS485 / CAN			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	7.5 kW	8 kW
Max. apparent output power	5.5 kVA	6.6 kVA	7.5 kVA	8.8 kVA
Rated grid voltage	L+N+PE/2L+PE, 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC; L1/L2/N(PE), 127(L-N)/220(L1-L2)VAC			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	20.8 A / 22.7 A	25 A / 27.3 A	31.3 A / 34.1 A	33.3 A / 36.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input power	7.7 kW / 8.4 kW	8.8 kW/ 9.6 kW	11 kW / 12 kW	11 kW / 12 kW
Input voltage range	187 - 253 V			
Max. input current	35 A	40 A	50 A	50 A
Output AC (Back-up)				
Rated output power	5 kW	6 kW	7.5 kW	8 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time ①	< 10 ms			
Rated output voltage	L1/L2/N(PE), 127 V / 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC; L1/L2/N(PE) ,127(L-N)/220(L1-L2)VAC			
Rated frequency	50 Hz / 60 Hz			
Rated output current	20.8 A / 22.7 A	25 A / 27.3 A	31.3 A / 34.1 A	33.3 A / 36.4 A
Max. AC passthrough current	35 A	40 A	50 A	50 A
THDv (@linear load)	< 3%			
Input AC (Generator side)				
Max. input power	5 kW	6 kW	7.5 kW	8 kW
Rated input current	20.8 A / 22.7 A	25 A / 27.3 A	31.3 A / 34.1 A	33.3 A / 36.4 A
Rated input voltage	L1/L2/N(PE), 127 V / 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC; L1/L2/N(PE) ,127(L-N)/220(L1-L2)VAC			
Rated input frequency	50 Hz / 60 Hz			
Efficiency				
Max. efficiency	95.4%			
EU efficiency	94.3%			
BAT charged by PV / AC max. efficiency	95.0%			
Battery discharged efficiency	93.7%			
Protection				
Surge protection	Yes			
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	Yes			
Anti-islanding protection	Yes			
General Data				
Max. power per phase (grid & back-up)	50% rated power			
Dimensions (W × H × D)	390 × 620 × 237 mm			
Weight	28.8 kg			
Inverter topology	Non-isolated (PV), Isolated (Battery)			
Self-consumption	< 20 W			
Operating temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66 (TYPE 4X)			
Noise emission (typical)	< 55 dB(A)			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	Inmetro140, IEEE 1547			
Safety / EMC standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL 1741, UL 1699B, FCC			
Features				
PV connection	MC4 connector			
Battery connection	Terminal Block			
AC connection	Terminal Block			
Display	7.0" LCD display & Bluetooth + APP			
Communication interface	Standard: Wi-Fi+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×2, Optional: 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.