

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 touchscreen, 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. 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 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 power	5 kW	6 kW	7.5 kW	8 kW
Max. charge / discharge current	112 A	135 A	190 A	190 A
Communication	RS485 / CAN			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	7.5 kW	8 kW
Rated grid voltage	L+N+PE/2L+PE, 220 V; L1/L2/N(PE), 120(L-N)/240(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
Max. output current	22.9 A / 25 A	27.5 A / 30 A	31.3 A / 34.1 A	36.7 A / 40 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Input voltage range	L+N+PE/2L+PE, 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC			
Max. input current	35 A	40 A	50 A	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Input Generator				
Max. input power	5 kW	6 kW	7.5 kW	8 kW
Max. 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 frequency	50 Hz / 60 Hz			
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	< 10 ms			
Rated output voltage	L1/L2/N(PE), 127 V / 220 V; L1/L2/N(PE), 120(L-N)/240(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%			
Efficiency				
Max. efficiency	96.0%			
EU efficiency	94.5%			
BAT charged by PV / AC max. efficiency	95.0%			
BAT discharged to AC max. efficiency	93.7%			
Protection				
Surge protection	Yes			
Ground fault monitoring	Yes			
Integrated AFCI 2.0	Yes			
DC reverse-polarity protection	Yes			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
Dados gerais				
Max. allowable phase imbalance (grid & back-up)	50%			
Dimensions (W × H × D)	390 × 620 × 237 mm			
Weight	28.8 kg			
Topology	Transformerless			
Self-consumption (night)	< 20 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66 (TYPE 4X)			
Noise emission (typical)	< 55 dB(A)			
Cooling concept	Intelligent 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				
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)			
AC connection	OT terminal			
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: 2G/3G/4G			