solis | 20th ANNIVERSARY

8-18K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(8-18)K02-NV-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	8K	10K	12K	15K	18K
Input DC (PV side)					
Recommended max. PV array size	16 kW	20 kW	24 kW	30 kW	36 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 kW	28.8 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			40 A / 40 A	42 A / 42 A
Max. short circuit current	30 A / 50 A			50 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	180 A	220 A	250 A	290 A	320 A
Number of battery ports	2				
Max. charge / discharge current of each port	150 A				175 A
Communication	CAN / RS485				
Output AC (Grid side)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA	18 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
Input AC (Grid side)					
Max. input current	18.3 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.0 A	34.2 A / 32.5 A	41 A / 39.2 A
Input Generator					
Max. input power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. input current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Rated input voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated input frequency	50 Hz / 60 Hz				
Output AC (Back-up)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	2 times of rated power, 10 s				
Back-up switch time	< 10 ms				
Rated output voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated frequency	50 Hz / 60 Hz				
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. continuous output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. continuous AC passthrough current	50 A				
THDv (@linear load)	< 3%				
Efficiency					
Max. efficiency	97.5%				
EU efficiency	96.4%				
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				
Integrated DC switch	Yes				
General Data					
Max. power per phase	50% rated power				40% 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	EN 50549-1/-10, VDE 4105&VDE 0124, NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, MEA, PEA, CEI 0-21				
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
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				