

S6-EH1P8K-L-PLUS

Solis Single Phase Low Voltage Energy Storage Inverters

New PLUS model provides solutions for demanding power scenarios

Features:

- Generator-compatible to extend backup duration during grid power outage
- Multiple inverters can operate together to form a microgrid
- Supports dual backup ports for intelligent control of critical and non-critical loads
- 10 seconds of 200% overload capability
- Automatic switchover time is < 4ms, providing seamless transitions from grid to backup
- Ensures excellent power supply stability, keeping the load unaffected by a weak grid or generator supply fluctuations

Models:

S6-EH1P8K-L-PLUS



DATASHEET

S6-EH1P8K-L-PLUS

Models	8K
Input DC (PV side)	
Recommended max. PV array size	16 kW
Max. usable PV input power	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	32 A / 32 A
Max. short circuit current	40 A / 40 A
MPPT number / Max. input strings number	2 / 4
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40 - 60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8 kVA
Operation phase	L/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	36.4 A / 34.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 2%
Input AC (Grid side)	
Input voltage range	187 - 253 V
Max. input current	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	< 4 ms
Rated output voltage	L/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	36.4 A / 34.8 A
Max. AC passthrough current	50 A
THDv (@linear load)	< 2%
Input Generator	
Max. input power	8 kW
Max. input current	36.4 A / 34.8 A
Rated input frequency	50 Hz / 60 Hz
Efficiency	
Max. efficiency	96.2%
EU efficiency	96.1%
BAT charged by PV / AC max. efficiency	95.3% / 93.9%
BAT discharged to AC max. efficiency	93.8%
Protection	
Ground fault monitoring	Yes
DC reverse-polarity protection	Yes
Integrated AFCI 2.0	Optional
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)
General Data	
Dimensions (W × H × D)	335 × 560 × 253 mm
Weight	23.5 kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Noise emission (typical)	< 65 dB(A)
Cooling concept	Intelligent fan-cooling
Max. operation altitude	3000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150, G98, CEI 0-21
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)
AC connection	Terminal Block
Display	7.0" LCD display & Bluetooth + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN