

## S6-EH1P(5-8)K-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-EH1P5K-L-PLUS

S6-EH1P6K-L-PLUS

S6-EH1P8K-L-PLUS



**DATASHEET**
**S6-EH1P(5-8)K-L-PLUS**

Models	5K	6K	8K
<b>Input DC (PV side)</b>			
Recommended max. PV array size	10 kW	12 kW	16 kW
Max. usable PV input power	8 kW	9.6 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	16 A / 16 A		32 A / 32 A
Max. short circuit current	20 A / 20 A		40 A / 40 A
MPPT number / Max. input strings number	2 / 2		2 / 4
<b>Battery</b>			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40 - 60 V		
Max. charge / discharge power	5 kW	6 kW	8 kW
Max. charge / discharge current	112 A	135 A	190 A
Communication	CAN / RS485		
<b>Output AC (Grid side)</b>			
Rated output power	5 kW	6 kW	8 kW
Max. apparent output power	5 kVA	6 kVA	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	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 2%		
<b>Input AC (Grid side)</b>			
Input voltage range	187 - 253 V		
Max. input current	32 A	40 A	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz		
<b>Output AC (Back-up)</b>			
Rated output power	5 kW	6 kW	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	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. AC Passthrough current	40 A	40 A	50 A
THDv (@linear load)	< 2%		
<b>Efficiency</b>			
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%		
<b>Protection</b>			
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)		
<b>General Data</b>			
Dimensions (W*H*D)	335 × 560 × 253 mm		
Weight	23 kg	23.5 kg	
Topology	High frequency isolation (for battery)		
Operating ambient temperature range	-40 ~ +60°C		
Ingress protection	IP66		
Cooling concept	Natural cooling	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		
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3		
<b>Features</b>			
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		