

S6-EH1P(3-8)K-L-PLUS-AU

Solis Single Phase Low Voltage Energy Storage Inverters

New PLUS model provides solutions for demanding power scenarios

Features:

- Built-in Backup Port with Automatic UPS switching
- Up to 190A max charge/discharge current
- 6 customisable charge/discharge time settings
- 10 second 200% surge power backup overload capability
- Generator connectivity with multiple input methods and automatic generator On/Off control
- Supports 1ph and 3ph flexible connection with max 48kW in parallel
- Intelligent AC coupling scheme, easily upgrade existing grid-connected systems
- Supports peak shaving control in both "self-use" and "generator" mode
- Compatible with lead-acid and lithium batteries, with multiple battery protection features

Models:

S6-EH1P3K-L-PLUS-AU / S6-EH1P3.6K-L-PLUS-AU

S6-EH1P5K-L-PLUS-AU / S6-EH1P6K-L-PLUS-AU

S6-EH1P8K-L-PLUS-AU



DATASHEET

S6-EH1P(3-8)K-L-PLUS-AU

| Models | 3K | 3.6K | 5K | 6K | 8K |
|--|---|---------|--------|-------------------------|-------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV array size | 6 kW | 7.2 kW | 10 kW | 12 kW | 16 kW |
| Max. usable PV input power | 4.8 kW | 5.76 kW | 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 |
| Battery | | | | | |
| Battery type | Li-ion / Lead-acid | | | | |
| Battery voltage range | 40 - 60 V | | | | |
| Max. charge / discharge power | 3 kW | 3.6 kW | 5 kW | 6 kW | 8 kW |
| Max. charge / discharge current | 70 A | 80 A | 112 A | 135 A | 190 A |
| Communication | CAN / RS485 | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 5 kW | 6 kW | 8 kW |
| Max. apparent output power | 3 kVA | 3.6 kVA | 5 kVA | 6 kVA | 8 kVA |
| Operation phase | 1/N/PE | | | | |
| Rated grid voltage | 230 V | | | | |
| Rated grid frequency | 50 Hz | | | | |
| Rated grid output current | 13.1 A | 15.7 A | 21.8 A | 26.1 A | 34.8 A |
| Max. output current | 13.1 A | 15.7 A | 21.8 A | 26.1 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 | 20 A | 24 A | 31 A | 39 A | 50 A |
| Frequency range | 45 - 55 Hz | | | | |
| Output AC (Back-up) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 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 | 1/N/PE, 230 V | | | | |
| Rated frequency | 50 Hz | | | | |
| Rated output current | 13.1 A | 15.7 A | 21.8 A | 26.1 A | 34.8 A |
| Max. AC passthrough current | 35 A | 35 A | 40 A | 40 A | 50 A |
| THDv (@linear load) | < 2% | | | | |
| Efficiency | | | | | |
| Max. efficiency | 96.2% | | | | |
| EU efficiency | 94.7% | | | | |
| BAT charged by PV / AC max. efficiency | 95.3% / 94.5% | | | | |
| BAT discharged to AC max. efficiency | 94.9% | | | | |
| 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 × 227 mm | | | | |
| Weight | 22 kg | | | | 22.5 kg |
| Topology | Transformerless | | | | |
| Operating ambient temperature range | -40 ~ +60°C | | | | |
| Ingress protection | IP66 | | | | |
| Cooling concept | Natural cooling | | | Intelligent fan-cooling | |
| Max. operation altitude | 4000 m | | | | |
| Grid connection standard | AS 4777 | | | | |
| 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 | LED indicator & Bluetooth + APP | | | | |
| Communication | RS485, CAN, Optional: Wi-Fi, GPRS, LAN | | | | |
| Country of manufacture | China | | | | |

(1) Activation required.