

S6-EH1P(3-6)K-L-AU

Solis Energy Storage Inverters

Features:

- Integrated 2 MPPTs for multiple array orientations
- Industry leading 125A/6kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports 1ph and 3ph flexible connection on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

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

S6-EH1P4.6K-L-AU / S6-EH1P5K-L-AU

S6-EH1P6K-L-AU



360° View

DATASHEET

S6-EH1P(3-6)K-L-AU

| Models | 3K | 3.6K | 4.6K | 5K | 6K |
|---|---|---------------|-----------------|---------------|---------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV power | 4.8 kW | 5.7 kW | 7 kW | 8 kW | 9.6 kW |
| Max. input voltage | 600 V | | | | |
| Rated voltage | 330 V | | | | |
| Start-up voltage | 90 V | | | | |
| MPPT voltage range | 90-520 V | | | | |
| Max. input current | 16 A / 16 A | | | | |
| Max. short circuit current | 24 A / 24 A | | | | |
| MPPT number/Max. input strings number | 2/2 | | | | |
| Battery | | | | | |
| Battery type | Li-ion / Lead-acid | | | | |
| Battery voltage range | 42 - 58 V | | | | |
| Battery capacity | 50 - 2000 Ah | | | | |
| Max. charge / discharge power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Max. charge / discharge current | 62.5 A | 75 A | 100 A | 105 A | 125 A |
| Communication | CAN | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 3 kVA | 3.6 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Operation phase | 1/N/PE | | | | |
| Rated grid voltage | 230 V | | | | |
| Rated grid frequency | 50 Hz | | | | |
| Rated grid output current | 13.0 A | 15.7 A | 20 A | 21.7 A | 26.1 A |
| Max. output current | 13.0 A | 15.7 A | 20 A | 21.7 A | 26.1 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDi | 3% | | | | |
| Input AC (Grid side) | | | | | |
| Rated voltage | 230 V | | | | |
| Max. input current | 20 A | 24.6 A | 31.4 A | 32 A | 40 A |
| Frequency range | 50 Hz | | | | |
| Output AC (Back-up) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 4.2 kVA, 60 sec | 5 kVA, 60 sec | 6.4 kVA, 60 sec | 7 kVA, 60 sec | 8 kVA, 60 sec |
| Back-up switch time | <10 ms | | | | |
| Rated output voltage | 1/N/PE, 230 V | | | | |
| Rated frequency | 50 Hz | | | | |
| Rated. output current | 13.0 A | 15.7 A | 20 A | 21.7A | 26.1 A |
| THDv (@linear load) | 3% | | | | |
| Efficiency | | | | | |
| Max. efficiency | > 97.0% | | > 97.5% | | |
| EU efficiency | > 96.2% | | | | |
| BAT charged by PV Max. efficiency | > 94.9% | | | | |
| BAT charged/discharged to AC Max. efficiency | > 94.33%/93.51% | | | | |
| Protection | | | | | |
| DC reverse-polarity protection | Yes | | | | |
| Ground fault monitoring | Yes | | | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | | | |
| Protection class/Over voltage category | I/II | | | | |
| General Data | | | | | |
| Dimensions (W*H*D) | 405*480*205 mm | | | | |
| Weight | 24.2 kg | | | | |
| Topology | Non-Isolated | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | |
| Ingress protection | IP66 | | | | |
| Cooling concept | Natural convection | | | | |
| Max. operation altitude | 3000 m | | | | |
| Grid connection standard | G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA | | | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, EN 61000-6-1/-2/-3/-4 | | | | |
| Features | | | | | |
| DC connection | MC4 connector | | | | |
| AC connection | Quick connection plug | | | | |
| Display | LED + APP | | | | |
| Communication | RS485, CAN, Optional: Wi-Fi, GPRS, LAN | | | | |
| Country of manufacture | China | | | | |

(1) Activation required.