

S6-EH3P(5-10)K2-H

Solis Energy Storage Inverters

Features:

- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads 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-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H



360° View

DATASHEET

S6-EH3P(5-10)K2-H

| Models | 5K2 | 6K2 | 8K2 | 10K2 |
|---|---|-----------------|------------------|-----------------|
| Input DC (PV side) | | | | |
| Recommended max. PV power | 8 kW | 9.6 kW | 12.8 kW | 16 kW |
| Max. input voltage | 1000 V | | | |
| Rated voltage | 600 V | | | |
| Start-up voltage | 160 V | | | |
| MPPT voltage range | 200-850 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 | | | |
| Battery voltage range | 120-600 V | | | |
| Max. charge / discharge power | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. charge / discharge current | 25 A | | 50 A | |
| Communication | CAN/RS485 | | | |
| Output AC (Grid side) | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. apparent output power | 5 kVA | 6 kVA | 8 kVA | 10 kVA |
| Rated grid voltage | 3/N/PE, 380 V / 400 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Max. output current | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | <3% | | | |
| Input AC (Grid side) | | | | |
| Max. input power | 7.5 kW | 9 kW | 12 kW | 15 kW |
| Rated input current | 11.4 A | 13.8 A | 18.2 A | 22.8 A |
| Rated input voltage | 3/N/PE, 380 V / 400 V | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | |
| Output AC (Back-up) | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. apparent output power | 8 kVA, 60 sec | 9.6 kVA, 60 sec | 12.8 kVA, 60 sec | 16 kVA, 60 sec |
| Back-up switch time | <10 ms | | | |
| Rated output voltage | 3/N/PE, 380 V / 400 V | | | |
| Rated frequency | 50 Hz / 60 Hz | | | |
| Rated output current | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| THDv (@linear load) | <2% | | | |
| Efficiency | | | | |
| Max. efficiency | 96.5% | 97.0% | 97.5% | 97.9% |
| EU efficiency | 96.8% | 97.1% | 97.4% | 97.5% |
| BAT charged by PV Max. efficiency | 98.4% | 98.5% | 98.2% | 98.3% |
| BAT charged/discharged to AC Max. efficiency | 97.3% | 97.3% | 97.5% | 97.5% |
| Protection | | | | |
| Anti-islanding protection | Yes | | | |
| Output over current protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | | |
| Integrated DC switch | Yes | | | |
| DC reverse-polarity protection | Yes | | | |
| PV over voltage protection | Yes | | | |
| Battery reverse protection | Yes | | | |
| General Data | | | | |
| Dimensions (W*H*D) | 600*500*230 mm | | | |
| Weight | 32.6 kg | | | |
| Topology | Transformerless | | | |
| Self-consumption (night) | <25 W | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | |
| Relative humidity | 0-95% | | | |
| Ingress protection | IP66 | | | |
| Cooling concept | Natural convection | | | |
| Max. operation altitude | 4000 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, IEC/EN 61000-6-1/-3 | | | |
| Features | | | | |
| PV connection | MC4 connector | | | |
| Battery connection | Quick connection plug | | | |
| AC connection | Quick connection plug | | | |
| Display | LED + Bluetooth + APP | | | |
| Communication | CAN, RS485, Optional: Wi-Fi, Cellular, LAN | | | |

(1) Activation required.