

S5-EH1P(3-6)K-L

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Max. string input current **15A**
- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ▶ Fanless design, long lifespan
- ▶ Intelligent EMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



Model:

- S5-EH1P3K-L S5-EH1P3.6K-L
- S5-EH1P4.6K-L S5-EH1P5K-L
- S5-EH1P6K-L

Datasheet

| Model Name | S5-EH1P3K-L | S5-EH1P3.6K-L | S5-EH1P4.6K-L | S5-EH1P5K-L | S5-EH1P6K-L |
|---|----------------|---------------|---|-------------|-------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV power | 4.8 kW | 5.7 kW | 8 kW | 8 kW | 8 kW |
| Max. input voltage | | | 600 V | | |
| Rated voltage | | | 330 V | | |
| Start-up voltage | | | 120 V | | |
| MPPT voltage range | | | 90-520 V | | |
| Max. input current | | | 15 A / 15 A | | |
| Max. short circuit current | | | 22.5 A / 22.5 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 | | 5 kW | | |
| Max. charge / discharge current | 62.5 A | | 100 A | | |
| Communication | | | CAN | | |
| Output AC (Back-up) | | | | | |
| Rated output power | 3 kW | | 5 kW | | |
| Max. apparent output power | 4.5 kVA, 10SEC | | 7 kVA, 10SEC | | |
| Back-up switch time | | | <20 ms | | |
| Rated output voltage | | | 1/N/PE, 230 V | | |
| Rated frequency | | | 50 Hz | | |
| Rated output current | 13.5 A | | 22 A | | |
| THDv (@linear load) | | | <2% | | |
| Input AC (Grid side) | | | | | |
| Input voltage range | | | 187-265 V | | |
| Max. input current | 20.5 A | 25 A | 31.5 A | 34.5 A | 34.5 A |
| Frequency range | | | 45-55 Hz | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Rated apparent output power | 3 kVA | 3.6 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| 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 | 15 A | 18.5 A | 21 A | 25 A | 30 A |
| Max. output current | 15 A | 18.5 A | 21 A | 25 A | 30 A |
| Inrush current | | | 65 A 10 us | | |
| Max. output fault current | | | 65 A 10 us | | |
| Max. output overcurrent protection | 16 A | 20 A | 22 A | 26 A | 31 A |
| Power Factor | | | >0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | | | <2% | | |
| Efficiency | | | | | |
| Max. efficiency | | | >97.1% | | |
| EU efficiency | | | >96.5% | | |
| Protection | | | | | |
| DC reverse-polarity protection | | | Yes | | |
| Short circuit protection | | | Yes | | |
| Output over current protection | | | Yes | | |
| Surge protection | | | DC Type II / AC Type II | | |
| Ground fault monitoring | | | Yes | | |
| Integrated AFCI (DC arc-fault circuit protection) | | | Yes ⁽¹⁾ | | |
| Protection class/Over voltage category | | | I / II (PV), II (battery), III (AC) | | |
| Integrated DC switch | | | Yes (PV2 Switch) | | |
| General Data | | | | | |
| Dimensions (W*H*D) | | | 333*505*249 mm | | |
| Weight | | | 18.3 kg | | |
| Topology | | | Non-isolated | | |
| Operating ambient temperature range | | | -25 ~ +60°C | | |
| Ingress protection | | | IP65 | | |
| 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 61000-6-2/-3 | | |
| Features | | | | | |
| DC connection | | | MC4 connector | | |
| AC connection | | | Quick connection plug | | |
| Display | | | 7.0"LCD color screen display | | |
| Communication | | | RS485, Optional: Wi-Fi, GPRS | | |
| Country of manufacture | | | China | | |

(1) Activation required.