

S5-EH1P(3-6)K-L

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Max. string input current 15A
- Uninterrupted power supply, 20ms reaction
- Multiple working modes to make maximize self-consumption, increase benefit
- Higher charge-discharge efficiency, improving the economic benefits
- AFCI protection, proactively reduces fire risk
- Fanless design, long lifespan
- Compatible with lithium & lead-acid batteries, increased more choice in different markets
- Intelligent EMS function, improving battery's reliability
- 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

Models:

S5-EH1P3K-L / S5-EH1P3.6K-L

S5-EH1P4.6K-L / S5-EH1P5K-L

S5-EH1P6K-L



360° View

DATASHEET

S5-EH1P(3-6)K-L

| Models | 3K | 3.6K | 4.6K | 5K | 6K |
|--|--|-----------------|---------------|-----------------|-----------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV array size | 6 kW | 7.2 kW | 9.2 kW | 10 kW | 12 kW |
| Max. usable PV input 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, 10 s | | | | 7 kVA, 10 s |
| Back-up switch time | < 20 ms | | | | |
| Rated output voltage | 1/N/PE, 220 V / 230 V | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | |
| Rated output current | 14 A / 13.5 A | | | | 23 A / 22 A |
| THDv (@linear load) | < 2% | | | | |
| Input AC (Grid side) | | | | | |
| Input voltage range | 187 - 265 V | | | | |
| Max. input current | 20.5 A / 20 A | 25 A / 23.5 A | 31.5 A / 30 A | 34.5 A / 33 A | 34.5 A / 33 A |
| Frequency range | 45 - 55 Hz / 55 - 65 Hz | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 3.3 kVA | 4 kVA | 4.6 kVA | 5.5 kVA | 6.6 kVA |
| Operation phase | 1/N/PE | | | | |
| Rated grid voltage | 220 V / 230 V | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 13.7 A / 13.1 A | 16.4 A / 15.7 A | 20.9 A / 20 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Max. output current | 15 A | 18.5 A | 21 A | 25 A | 30 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 | Yes ⁽¹⁾ | | | | |
| Protection class / Over voltage category | I / II | | | | |
| General Data | | | | | |
| Dimensions (W × H × D) | 333 × 505 × 249 mm | | | | |
| Weight | 17.9 kg | | | | 18.1 kg |
| Topology | High frequency isolation (for battery) | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | |
| Ingress protection | IP65 | | | | |
| Cooling concept | Natural cooling | | | | |
| 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, 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 display | | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | | |

(1) Activation required.