

## S5-EH1P(3-6)K-L

### Solis Energy Storage Inverters

#### >> Models:

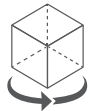
S5-EH1P3K-L

S5-EH1P3.6K-L

S5-EH1P4.6K-L

S5-EH1P5K-L

S5-EH1P6K-L



360° View



#### 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
- AFCI protection, proactively reduces fire risk
- 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

**DATASHEET****S5-EH1P(3-6)K-L**

| Models  | 3K   | 3.6K            | 4.6K          | 5K              | 6K              |
|---|--|-----------------|---------------|-----------------|-----------------|
| <b>Input DC (PV side)</b>                         |  |                 |               |                 |                 |
| 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  |                 |               |                 |                 |
| <b>Battery</b>                                    |  |                 |               |                 |                 |
| 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  |                 |               |                 |                 |
| <b>Output AC (Back-up)</b>                        |  |                 |               |                 |                 |
| 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, 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%  |                 |               |                 |                 |
| <b>Input AC (Grid side)</b>                       |  |                 |               |                 |                 |
| 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  |                 |               |                 |                 |
| <b>Output AC (Grid side)</b>                      |  |                 |               |                 |                 |
| 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%  |                 |               |                 |                 |
| <b>Efficiency</b>                                 |  |                 |               |                 |                 |
| Max. efficiency                                   | >97.1%   |                 |               |                 |                 |
| EU efficiency                                     | >96.5%   |                 |               |                 |                 |
| <b>Protection</b>                                 |  |                 |               |                 |                 |
| 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 <sup>(1)</sup>   |                 |               |                 |                 |
| Protection class/Over voltage category            | I/II   |                 |               |                 |                 |
| <b>General Data</b>                               |  |                 |               |                 |                 |
| Dimensions (W*H*D)                                | 333*505*249 mm   |                 |               |                 |                 |
| Weight  | 18.3 kg  |                 |               |                 |                 |
| Topology  | High frequency isolation (for battery)   |                 |               |                 |                 |
| 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, 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   |                 |               |                 |                 |
| <b>Features</b>                                   |  |                 |               |                 |                 |
| DC connection                                     | MC4 connector  |                 |               |                 |                 |
| AC connection                                     | Quick connection plug  |                 |               |                 |                 |
| Display   | 7.0" LCD color screen display  |                 |               |                 |                 |
| Communication                                     | RS485, Optional: Wi-Fi, GPRS   |                 |               |                 |                 |

(1) Activation required.