

S6-EA1P(3.6-6)K-L

Solis Single Phase Low Voltage AC-Coupled Inverters

Features:

- Supports Peak Shaving Mode
- Industry leading 125A/6kW max charge/discharge rating
- Provide intelligent time of use solution together with the monitoring group
- Compatible with multiple brands of lithium battery models
- 6 customisable charge/discharge time settings
- Increased battery protection and operation features to extend battery life

Models:

S6-EA1P3.6K-L

S6-EA1P4.6K-L

S6-EA1P5K-L

S6-EA1P6K-L



DATASHEET
S6-EA1P(3.6-6)K-L

| Models | 3.6K | 4.6K | 5K | 6K |
|--|--|-------------|-----------------|-----------------|
| Battery | | | | |
| Battery type | Li-ion | | | |
| Battery voltage range | 40-60 V | | | |
| Max. charge / discharge current | 75 A | 96 A | 105 A | 125 A |
| Communication | CAN | | | |
| Output AC (Grid side) | | | | |
| Rated output power | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 3.6 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Operation phase | 1/N/PE | | | |
| Rated grid voltage | 220 V / 230 V | | | |
| Grid voltage range | 187-253 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 16.4 A / 15.7 A | 21 A / 20 A | 22.8 A / 21.8 A | 27.3 A / 26.1 A |
| Max. output current | 16.4 A / 15.7 A | 21 A / 20 A | 22.8 A / 21.8 A | 27.3 A / 26.1 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | <3% | | | |
| Input AC (Grid side) | | | | |
| Input voltage range | 187-253 V | | | |
| Max. input current | 16.4 A / 15.7 A | 21 A / 20 A | 22.8 A / 21.8 A | 27.3 A / 26.1 A |
| Max. input power | 3.6 kW | 4.6 kW | 5 kW | 6 kW |
| Frequency range | 45-55 Hz / 55-65 Hz | | | |
| Efficiency | | | | |
| BAT charged/discharged to AC Max. efficiency | > 93.5% | | | |
| Protection | | | | |
| Protection class | I | | | |
| Over voltage category | DC II / AC III | | | |
| Battery reverse protection | Yes | | | |
| Battery over and under voltage protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Output over current protection | Yes | | | |
| Temperature protection | Yes | | | |
| General Data | | | | |
| Dimensions (W*H*D) | 440*465*192 mm | | | |
| Weight | 24.5 kg | | | |
| Topology | High frequency isolation | | | |
| 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 | C10/11, 50549, G98, G99, VDE4105, AS4777.2, France | | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, EN 61000-6-2/-3 | | | |
| Features | | | | |
| DC connection | Terminal Block | | | |
| AC connection | Quick connection plug | | | |
| Display | LED + APP | | | |
| Communication | RS485, CAN, Optional: Wi-Fi, LAN | | | |