

## 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              |
|--|--|-------------|-----------------|-----------------|
| <b>Battery</b>                               |  |             |                 |                 |
| Battery type                                 | Li-ion   |             |                 |                 |
| Battery voltage range                        | 40-60 V  |             |                 |                 |
| Max. charge / discharge current              | 75 A   | 96 A        | 105 A           | 125 A           |
| Communication                                | CAN  |             |                 |                 |
| <b>Output AC (Grid side)</b>                 |  |             |                 |                 |
| 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%  |             |                 |                 |
| <b>Input AC (Grid side)</b>                  |  |             |                 |                 |
| 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                                |             |                 |                 |
| <b>Efficiency</b>                            |  |             |                 |                 |
| BAT charged/discharged to AC Max. efficiency | > 93.5%  |             |                 |                 |
| <b>Protection</b>                            |  |             |                 |                 |
| 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  |             |                 |                 |
| <b>General Data</b>                          |  |             |                 |                 |
| 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                 |             |                 |                 |
| <b>Features</b>                              |  |             |                 |                 |
| DC connection                                | Terminal Block                                     |             |                 |                 |
| AC connection                                | Quick connection plug                              |             |                 |                 |
| Display                                      | LED + APP  |             |                 |                 |
| Communication                                | RS485, CAN, Optional: Wi-Fi, LAN                   |             |                 |                 |