

## S6-EA3P(5-10)KAA-NV-ND-H

# Solis Three Phase High Voltage AC-Coupled Inverters

### Features:

- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- Max. charge/discharge current up to 50A
- Supports peak shaving control
- Dual RS485 port, supports remote upgrade and VPP remote control
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Compatible with multiple brands of lithium battery models

### Models:

S6-EA3P5KAA-NV-ND-H

S6-EA3P6KAA-NV-ND-H

S6-EA3P8KAA-NV-ND-H

S6-EA3P10KAA-NV-ND-H



# DATASHEET

## S6-EA3P(5-10)KAA-NV-ND-H

| Models                                         | 5K                                                                    | 6K            | 8K                 | 10K             |
|------------------------------------------------|-----------------------------------------------------------------------|---------------|--------------------|-----------------|
| Battery                                        |                                                                       |               |                    |                 |
| Battery type                                   | Li-ion                                                                |               |                    |                 |
| Battery voltage range                          | 120 - 600 V <sup>(1)</sup>                                            |               |                    |                 |
| Max. charge / discharge power                  | 5 kW                                                                  | 6 kW          | 8 kW               | 10 kW           |
| Charge / discharge current                     | 0 - 25 A                                                              |               | 0 - 50 A           |                 |
| Battery Isc                                    | 80 A                                                                  |               |                    |                 |
| Communication                                  | CAN / RS485                                                           |               |                    |                 |
| Output AC (Grid side)                          |                                                                       |               |                    |                 |
| Rated output power                             | 5 kW                                                                  | 6 kW          | 8 kW               | 10 kW           |
| Max. apparent output power                     | 5 kVA                                                                 | 6 kVA         | 8 kVA              | 10 kVA          |
| Rated grid voltage                             | 3/N/PE, 380 V / 400 V                                                 |               |                    |                 |
| Grid voltage range                             | 320 - 460 V                                                           |               |                    |                 |
| Rated grid frequency                           | 50 Hz / 60 Hz                                                         |               |                    |                 |
| Rated grid output current                      | 7.6 A / 7.2 A                                                         | 9.1 A / 8.7 A | 12.2 A / 11.5 A    | 15.2 A / 14.4 A |
| Max. output current                            | 7.6 A / 7.2 A                                                         | 9.1 A / 8.7 A | 12.2 A / 11.5 A    | 15.2 A / 14.4 A |
| Power factor                                   | > 0.99 (0.8 leading - 0.8 lagging)                                    |               |                    |                 |
| THDi                                           | < 3%                                                                  |               |                    |                 |
| Input AC (Grid side)                           |                                                                       |               |                    |                 |
| Max. input power                               | 7.5 kW                                                                | 9 kW          | 12 kW              | 15 kW           |
| Rated input current                            | 11.4 A                                                                | 13.8 A        | 18.2 A             | 22.8 A          |
| Rated input voltage                            | 3/N/PE, 380 V / 400 V                                                 |               |                    |                 |
| Rated frequency                                | 50 Hz / 60 Hz                                                         |               |                    |                 |
| Efficiency                                     |                                                                       |               |                    |                 |
| EU efficiency                                  | 97.51%                                                                |               |                    |                 |
| BAT charged / discharged to AC max. efficiency | 97.50%                                                                |               |                    |                 |
| Protection                                     |                                                                       |               |                    |                 |
| Anti-islanding protection                      | Yes                                                                   |               |                    |                 |
| Output over current protection                 | Yes                                                                   |               |                    |                 |
| Short circuit protection                       | Yes                                                                   |               |                    |                 |
| Battery reverse protection                     | Yes                                                                   |               |                    |                 |
| Protection class / Over voltage category       | I / II (Battery), III (Main)                                          |               |                    |                 |
| General Data                                   |                                                                       |               |                    |                 |
| Dimensions (W × H × D)                         | 600 × 500 × 210 mm                                                    |               | 600 × 500 × 230 mm |                 |
| Weight                                         | 24.3 kg                                                               |               | 26.9 kg            |                 |
| Topology                                       | Transformerless                                                       |               |                    |                 |
| Self-consumption (night)                       | < 25 W                                                                |               |                    |                 |
| Operating ambient temperature range            | -25 ~ +60°C (> 45°C derating)                                         |               |                    |                 |
| Relative humidity                              | 0 - 95%                                                               |               |                    |                 |
| Ingress protection                             | IP66                                                                  |               |                    |                 |
| Noise emission (typical)                       | < 46.9 dB(A)                                                          |               |                    |                 |
| Cooling concept                                | Natural cooling                                                       |               |                    |                 |
| Max. operation altitude                        | 4000 m                                                                |               |                    |                 |
| Grid connection standard                       | VDE-AR-N 4105/EN 50549-10 & EN 50549-1/EN50549SW/EN 50549FI/DK1 & DK2 |               |                    |                 |
| Safety standard                                | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3                                |               |                    |                 |
| Features                                       |                                                                       |               |                    |                 |
| DC connection                                  | Quick connection plug                                                 |               |                    |                 |
| AC connection                                  | Quick connection plug                                                 |               |                    |                 |
| Display                                        | LED indicator & Bluetooth + APP                                       |               |                    |                 |
| Communication                                  | CAN, RS485, Optional: Wi-Fi, Cellular, LAN                            |               |                    |                 |

(1) Supports max. battery voltage to 700 V.