





**30-60K**

# SOLARATOR SERIES

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

## S6-EH3P(30-60)K-H(21A)

Three Phase | High Voltage

### 10 Unique Advantages

- ★ Supports PV input up to 100kW, maximising solar utilisation
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 168A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 2s in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges

### 6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 600kW (Solis STS cabinet recommended for systems over 6 units)

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# DATASHEET

| Models                                       | 30K  | 40K   | 50K                                  | 60K             |
|--|--|---|--------------------------------------|-----------------|
| <b>Input DC (PV side)</b>                    |  |   |                                      |                 |
| Recommended max. PV array size               | 60 kW  | 80 kW   | 100 kW                               | 100 kW          |
| Max. usable PV input power                   | 60 kW  | 80 kW   | 100 kW                               | 100 kW          |
| Max. input voltage                           |  |   | 1000 V                               |                 |
| Rated voltage                                |  |   | 600 V                                |                 |
| Start-up voltage                             |  |   | 180 V                                |                 |
| MPPT voltage range                           |  |   | 150 - 850 V                          |                 |
| Max. input current                           | 3 × 42A  |   | 4 × 42 A                             |                 |
| Max. current per DC input                    |  |   | 42 A                                 |                 |
| Max. short circuit current                   | 3 × 60 A   |   | 4 × 60 A                             |                 |
| MPPT number / Max. input strings number      | 3 / 6  |   | 4 / 8                                |                 |
| <b>Battery</b>                               |  |   |                                      |                 |
| Battery type                                 |  |   | Li-ion                               |                 |
| Battery voltage range                        |  |   | 150 - 800 V                          |                 |
| Max. charge / discharge current              |  | 80 A × 2  |                                      | 84 A × 2        |
| Number of battery port / Number of BMS port  |  |   | 2                                    |                 |
| Max. charge / discharge current of each port |  | 80 A  |                                      | 84 A            |
| Communication                                |  |   | CAN / RS485                          |                 |
| <b>Output AC (Grid side)</b>                 |  |   |                                      |                 |
| Rated output power                           | 30 kW  | 40 kW   | 50 kW                                | 60 kW           |
| Max. apparent output power                   | 30 kVA   | 40 kVA  | 50 kVA                               | 60 kVA          |
| Rated grid voltage                           |  |   | 3/N/PE, 220 V / 380 V, 230 V / 400 V |                 |
| Rated grid frequency                         |  |   | 50 Hz / 60 Hz                        |                 |
| Rated grid output current                    | 45.6 A / 43.3 A  | 60.8 A / 57.7 A   | 76 A / 72.2 A                        | 91.2 A / 86.6 A |
| Power factor                                 |  |   | > 0.99 (0.8 leading - 0.8 lagging)   |                 |
| THDi   |  |   | < 3%                                 |                 |
| <b>Input AC (Grid side)</b>                  |  |   |                                      |                 |
| Max. input power                             | 60 kW  | 60 kW   | 100 kW                               | 100kW / 105kW   |
| Input voltage range                          |  |   | 304 - 460 V                          |                 |
| Max. input current                           | 91.2 A / 86.6 A  | 121.6 A / 115.4 A   | 152 A / 144.4 A                      | 152 A / 152 A   |
| <b>Output AC (Back-up)</b>                   |  |   |                                      |                 |
| Rated output power                           | 30 kW  | 40 kW   | 50 kW                                | 60kW            |
| Max. apparent output power                   |  | 1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s |                                      |                 |
| Back-up switch time <sup>①</sup>             |  |   | < 10 ms                              |                 |
| Rated output voltage                         |  |   | 3/N/PE, 220 V / 380 V, 230 V / 400 V |                 |
| Rated frequency                              |  |   | 50 Hz / 60 Hz                        |                 |
| Rated output current                         | 45.6 A / 43.3 A  | 60.8 A / 57.7 A   | 76 A / 72.2 A                        | 91.2 A / 86.6 A |
| Max. AC passthrough current                  | 45.6 A / 43.3 A  | 60.8 A / 57.7 A   | 76 A / 72.2 A                        | 91.2 A / 86.6 A |
| THDv (@linear load)                          |  |   | < 2%                                 |                 |
| <b>Input AC (Generator side)</b>             |  |   |                                      |                 |
| Max. input power                             | 30 kW  | 40 kW   | 50 kW                                | 60 kW           |
| Rated input current                          | 45.6 A / 43.3 A  | 60.8 A / 57.7 A   | 76 A / 72.2 A                        | 91.2 A / 86.6 A |
| Rated input voltage                          |  |   | 3/N/PE, 220 V / 380 V, 230 V / 400 V |                 |
| Rated input frequency                        |  |   | 50 Hz / 60 Hz                        |                 |
| <b>Efficiency</b>                            |  |   |                                      |                 |
| Max. efficiency                              |  |   | 97.7%                                |                 |
| EU efficiency                                |  |   | 97.3%                                |                 |
| BAT charged by PV / AC max. efficiency       |  |   | 98.5% / 97.8%                        |                 |
| Battery discharged efficiency                |  |   | 97.5%                                |                 |
| <b>Protection</b>                            |  |   |                                      |                 |
| Surge protection                             |  |   | DC Type II / AC Type II              |                 |
| Output over current protection               |  |   | Yes                                  |                 |
| Insulation resistance monitoring             |  |   | Yes                                  |                 |
| Residual current detection                   |  |   | Yes                                  |                 |
| Integrated PV switch                         |  |   | Yes                                  |                 |
| DC reverse-polarity protection               |  |   | Yes                                  |                 |
| Protection class / Over voltage category     |  |   | I / PV II, battery II, AC III        |                 |
| Integrated AFCI 2.0                          |  |   | Optional                             |                 |
| Anti-islanding protection                    |  |   | Yes                                  |                 |
| <b>General Data</b>                          |  |   |                                      |                 |
| Max. power per phase (grid & back-up)        |  |   | 33% rated power                      |                 |
| Dimensions (W × H × D)                       |  |   | 530 × 880 × 290 mm                   |                 |
| Weight                                       |  |   | 76 kg                                |                 |
| Inverter topology                            |  |   | Transformerless                      |                 |
| Self-consumption                             |  |   | < 35 W                               |                 |
| Operating temperature range                  |  |   | -25 ~ +60°C                          |                 |
| Relative humidity                            |  |   | 0 - 100%                             |                 |
| Ingress protection                           |  |   | IP66                                 |                 |
| Cooling concept                              |  |   | Intelligent redundant fan-cooling    |                 |
| Max. operation altitude                      |  |   | 4000 m                               |                 |
| Grid connection standard <sup>②</sup>        | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, VDE 0126/XP C15/VFR:2019, NTS 631/RD 1699/UNE 217002, CEI 0-21, CEI 0-16, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, DEWA, MEA, PEA, PORTARIA N° 140/PORTARIA N° 515 |   |                                      |                 |
| Safety / EMC standard                        | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011   |   |                                      |                 |
| <b>Features</b>                              |  |   |                                      |                 |
| PV connection                                |  |   | MC4 connector                        |                 |
| Battery connection                           |  |   | Terminal connector                   |                 |
| AC connection                                |  |   | OT terminal                          |                 |
| Display                                      |  |   | 7.0" LCD display & Bluetooth + APP   |                 |
| Communication interface                      | Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×3, DO×3; Optional: 4G   |   |                                      |                 |

① From On-Grid Mode to Off-Grid Mode: For a single inverter system, switchover time <10ms.

For a parallel system which consists of up to 6 inverters, switchover time <20ms.  
If customer wishes to connect more than 6 inverters in parallel, please contact Solis Technical Team.

② This column only shows the planned certification standards.

Please confirm the specific time of obtaining the standards with the local team.