

**75-125K**

# SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

**S6-EH3P(75-125)K10-NV-YD-H**

Three Phase | High Voltage



## 12 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ 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 200A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 200ms 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
- ★ Utility bypass function allows direct grid supply to backup loads
- ★ Patented cooling technology ensures reliable operation even under high-temperature conditions

## 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 1.25MW (Solis STS cabinet recommended for systems over 6 units)

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## DATASHEET

| Models                                         | 75K                                                                                                                                                                                                                                                                                                                                                                                                        | 80K                                                                                                                                                | 99.9K                             | 100K              | 125K              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------|-------------------|
| Input DC (PV side)                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Recommended max. PV array size                 | 150 kW                                                                                                                                                                                                                                                                                                                                                                                                     | 160 kW                                                                                                                                             | 200 kW                            | 200 kW            | 250 kW            |
| Max. usable PV input power                     | 150 kW                                                                                                                                                                                                                                                                                                                                                                                                     | 160 kW                                                                                                                                             | 200 kW                            | 200 kW            | 250 kW            |
| Max. input voltage                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 1000 V                            |                   |                   |
| Rated voltage                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 600 V                             |                   |                   |
| Start-up voltage                               |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 180 V                             |                   |                   |
| MPPT voltage range                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 150 - 950 V                       |                   |                   |
| Max. input current                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 10 × 42 A                         |                   |                   |
| Max. short circuit current                     |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 10 × 60 A                         |                   |                   |
| MPPT number / Max. input strings number        |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 10 / 20                           |                   |                   |
| Battery                                        |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Battery type                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Li-ion                            |                   |                   |
| Battery voltage range                          |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 300 - 950 V                       |                   |                   |
| Max. charge / discharge current                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 100 A × 2 / 100 A × 2             |                   |                   |
| Number of battery ports                        |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 2                                 |                   |                   |
| Max. charge / discharge current of each port   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 100 A                             |                   |                   |
| Communication                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | CAN / RS485                       |                   |                   |
| Output AC (Back-up)                            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Rated output power                             | 75 kW                                                                                                                                                                                                                                                                                                                                                                                                      | 80 kW                                                                                                                                              | 99.9 kW                           | 100 kW            | 125 kW            |
| Max. apparent output power                     |                                                                                                                                                                                                                                                                                                                                                                                                            | 75-100K: 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms;<br>125K: 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms |                                   |                   |                   |
| Back-up switch time                            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | < 10 ms                           |                   |                   |
| Rated output voltage                           |                                                                                                                                                                                                                                                                                                                                                                                                            | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V                                                                                                       |                                   |                   |                   |
| Rated frequency                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 50 Hz / 60 Hz                     |                   |                   |
| THDv (@linear load)                            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | < 3%                              |                   |                   |
| Input AC (Grid side)                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Max. input current                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 250 A                             |                   |                   |
| Input AC (Generator)                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Max. input power                               | 75 kW                                                                                                                                                                                                                                                                                                                                                                                                      | 80 kW                                                                                                                                              | 99.9 kW                           | 100 kW            | 125 kW            |
| Rated input current                            | 114.0 A / 108.3 A                                                                                                                                                                                                                                                                                                                                                                                          | 121.6 A / 115.5 A                                                                                                                                  | 151.8 A / 144.2 A                 | 151.9 A / 144.3 A | 189.9 A / 180.4 A |
| Rated input voltage                            |                                                                                                                                                                                                                                                                                                                                                                                                            | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V                                                                                                       |                                   |                   |                   |
| Rated input frequency                          |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 50 Hz / 60 Hz                     |                   |                   |
| Output AC (Grid side)                          |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Rated output power                             | 75 kW                                                                                                                                                                                                                                                                                                                                                                                                      | 80 kW                                                                                                                                              | 99.9 kW                           | 100 kW            | 125 kW            |
| Max. apparent output power                     | 75 kVA                                                                                                                                                                                                                                                                                                                                                                                                     | 80 kVA                                                                                                                                             | 99.9 kVA                          | 100 kVA           | 125 kVA           |
| Rated grid voltage                             |                                                                                                                                                                                                                                                                                                                                                                                                            | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V                                                                                                       |                                   |                   |                   |
| Rated grid frequency                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 50 Hz / 60 Hz                     |                   |                   |
| Rated grid output current                      | 114 A / 108.3 A                                                                                                                                                                                                                                                                                                                                                                                            | 121.6 A / 115.5 A                                                                                                                                  | 151.8 A / 144.2 A                 | 151.9 A / 144.3 A | 189.9 A / 180.4 A |
| Power factor                                   |                                                                                                                                                                                                                                                                                                                                                                                                            | > 0.99 (0.8 leading - 0.8 lagging)                                                                                                                 |                                   |                   |                   |
| THDi                                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | < 3%                              |                   |                   |
| Efficiency                                     |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Max. efficiency                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 97.5%                             |                   |                   |
| EU efficiency                                  | 96.9%                                                                                                                                                                                                                                                                                                                                                                                                      | 96.9%                                                                                                                                              | 97.1%                             | 97.1%             | 97.2%             |
| BAT charged / discharged to AC max. efficiency |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 97.0%                             |                   |                   |
| Protection                                     |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Anti-islanding protection                      |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Yes                               |                   |                   |
| Output over current protection                 |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Yes                               |                   |                   |
| Short circuit protection                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Yes                               |                   |                   |
| Integrated DC switch                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Yes                               |                   |                   |
| DC reverse-polarity protection                 |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Yes                               |                   |                   |
| Protection class / Over voltage category       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | I/ DC II, AC III                  |                   |                   |
| Surge protection                               |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | DC Type II / AC Type II           |                   |                   |
| Integrated AFCI 2.0                            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Optional (Brazil: Yes)            |                   |                   |
| General Data                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| Max. power per phase (grid & back-up)          | 25 kW                                                                                                                                                                                                                                                                                                                                                                                                      | 26.66 kW                                                                                                                                           | 33.3 kW                           | 33.33 kW          | 41.66 kW          |
| Dimensions (W × H × D)                         |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 1174 × 814 × 400 mm               |                   |                   |
| Weight                                         |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 170 kg                            |                   |                   |
| Topology                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Transformerless                   |                   |                   |
| Operating ambient temperature range            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | -25 ~ +60°C                       |                   |                   |
| Relative humidity                              |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 0 - 100%                          |                   |                   |
| Ingress protection                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | IP66                              |                   |                   |
| Cooling concept                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | Intelligent redundant fan-cooling |                   |                   |
| Max. operation altitude                        |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 3000 m                            |                   |                   |
| Grid connection standard ①                     | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARÇO DE 2022;<br>Brazil (75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116) |                                                                                                                                                    |                                   |                   |                   |
| Safety / EMC standard ①                        | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                    |                                   |                   |                   |
| Features                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                   |                   |                   |
| PV connection                                  | MC4 Quick connection plug                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                    |                                   |                   |                   |
| Battery connection                             | Terminal connector                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                    |                                   |                   |                   |
| AC connection                                  | Terminal block                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                    |                                   |                   |                   |
| Display                                        | 7.0" LCD display & Bluetooth + APP                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                    |                                   |                   |                   |
| Communication interface                        | Standard: WIFI+LAN+Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 4; Optional: 4G                                                                                                                                                                                                                                                                                    |                                                                                                                                                    |                                   |                   |                   |

① This column only shows the planned certification standards. Please confirm the specific time of obtaining the standards with the local team.