

**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                   |
|---|--|-------------------|---|-------------------|------------------------|
| <b>Input DC (PV side)</b>                       |  |                   |   |                   |                        |
| 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   |                   |                        |
| <b>Battery</b>                                  |  |                   |   |                   |                        |
| Battery type                                    |  |                   | Li-ion  |                   |                        |
| Battery voltage range                           |  |                   | 300 - 950 V   |                   |                        |
| Max. charge / discharge current                 |  |                   | 200 A / 100 A + 100 A                                       |                   |                        |
| Number of battery ports                         |  |                   | 2   |                   |                        |
| Max. charge / discharge current of each port    |  |                   | 100 A   |                   |                        |
| Communication                                   |  |                   | CAN / RS485   |                   |                        |
| <b>Output AC (Grid side)</b>                    |  |                   |   |                   |                        |
| 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, 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%  |                   |                        |
| <b>Input AC (Grid side)</b>                     |  |                   |   |                   |                        |
| Max. input current                              |  |                   | 250 A   |                   |                        |
| <b>Output AC (Back-up)</b>                      |  |                   |   |                   |                        |
| Rated output power                              | 75 kW  | 80 kW             | 99.9 kW   | 100 kW            | 125 kW                 |
| Max. apparent output power                      | 75-100K: 1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms; 125K: 1.2 times of rated power, 100 s; 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, 230 V / 400 V                        |                   |                        |
| Rated frequency                                 |  |                   | 50 Hz / 60 Hz   |                   |                        |
| THDv (@linear load)                             |  |                   | < 2%  |                   |                        |
| <b>Input AC (Generator)</b>                     |  |                   |   |                   |                        |
| 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   |                   |                        |
| <b>Efficiency</b>                               |  |                   |   |                   |                        |
| Max. efficiency                                 |  |                   | 97.6%   |                   |                        |
| EU efficiency                                   |  |                   | 97.2%   |                   |                        |
| BAT charged / discharged to AC max. efficiency  |  |                   | 97.0%   |                   |                        |
| <b>Protection</b>                               |  |                   |   |                   |                        |
| Anti-islanding protection                       |  |                   | Yes   |                   |                        |
| Output over current protection                  |  |                   | Yes   |                   |                        |
| Short circuit protection                        |  |                   | Yes   |                   |                        |
| Integrated DC switch                            |  |                   | Yes   |                   |                        |
| DC reverse-polarity protection                  |  |                   | Yes   |                   |                        |
| Surge protection                                |  |                   | DC Type II / AC Type II                                     |                   |                        |
| Integrated AFCI 2.0                             | Yes  |                   | Optional  |                   | Optional (Brazil: Yes) |
| Protection class / Over voltage category        |  |                   | I/ DC II, AC III  |                   |                        |
| <b>General Data</b>                             |  |                   |   |                   |                        |
| Max. allowable phase imbalance (grid & back-up) |  |                   | 100%  |                   |                        |
| Max. power per phase (grid & back-up)           | 25.00 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 fan-cooling                                     |                   |                        |
| Max. operation altitude                         |  |                   | 3000 m  |                   |                        |
| Grid connection standard                        | 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; |                   |   |                   |                        |
|   | Brazil (75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116)   |                   |   |                   |                        |
| Safety / EMC standard                           | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011   |                   |   |                   |                        |
| <b>Features</b>                                 |  |                   |   |                   |                        |
| PV connection                                   |  |                   | MC4 Quick connection plug                                   |                   |                        |
| Battery connection                              |  |                   | Terminal connector  |                   |                        |
| AC connection                                   |  |                   | Terminal block  |                   |                        |
| Display   |  |                   | 7.0" LCD display & Bluetooth + APP                          |                   |                        |
| Communication                                   |  |                   | CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN |                   |                        |