

NEW



50-60K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(50-60)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 | 50K | 60K |
|---|---|-----------------|
| Input DC (PV side) | | |
| Recommended max. PV array size | 100 kW | 100 kW |
| Max. usable PV input power | 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 | 4 × 42 A | |
| Max. current per DC input | 42 A | |
| Max. short circuit current | 4 × 60 A | |
| MPPT number / Max. input strings number | 4 / 8 | |
| Battery | | |
| Battery type | Li-ion | |
| Battery voltage range | 150 - 800 V | |
| Max. charge / discharge current | 80 A × 2 | 84 A × 2 |
| Number of battery ports | 2 | |
| Max. charge / discharge power of each input | 35 kW | |
| Communication | CAN / RS485 | |
| Output AC (Back-up) | | |
| Rated output power | 50 kW | 60 kW |
| Max. apparent output power | 1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s | |
| 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% | |
| Input AC (Grid side) | | |
| Max. input current | 152 A / 144.4 A | 152 A / 152 A |
| Input AC (Generator) | | |
| Max. input power | 50 kW | 60 kW |
| Rated input current | 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 | |
| Output AC (Grid side) | | |
| Rated output power | 50 kW | 60 kW |
| Max. apparent output power | 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 | 76 A / 72.2 A | 91.2 A / 86.6 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | < 3% | |
| Efficiency | | |
| Max. efficiency | 97.7% | |
| EU efficiency | 97.3% | |
| Battery charged efficiency | 98.5% | |
| Battery discharged efficiency | 97.5% | |
| Protection | | |
| Surge protection | DC Type II / AC Type II | |
| Output over current protection | Yes | |
| Integrated DC switch | Yes | |
| DC reverse-polarity protection | Yes | |
| Protection class / Over voltage category | I / PV II, battery II, AC III | |
| Integrated AFCI 2.0 | Optional | |
| General Data | | |
| Max. allowable phase imbalance (grid & back-up) | 100% | |
| Max. power per phase (grid & back-up) | 33% | |
| Dimensions (W × H × D) | 530 × 880 × 290 mm | |
| Weight | 76 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 | 4000 m | |
| Grid connection standard | 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/RD 244/UNE 217002, CEI 0-21, 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 | |
| Features | | |
| PV connection | MC4 connector | |
| Battery connection | Terminal connector | |
| AC connection | OT terminal | |
| Display | 7.0" LCD display & Bluetooth + APP | |
| Communication | CAN, RS485-115200, Optional: Wi-Fi, Cellular, LAN | |