



solis

20th
ANNIVERSARY



8-18K

SOLARATOR SERIES

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

S6-EH3P(8-18)K02-NV-YD-L

Three Phase | Low Voltage

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting — all in one platform
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

SRI LANKA

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DATASHEET

| Models | 8K | 10K | 12K | 15K | 18K |
|--|-----------------|-----------------|--|-----------------|-----------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV array size | 16 kW | 20 kW | 24 kW | 30 kW | 36 kW |
| Max. usable PV input power | 12.8 kW | 16 kW | 19.2 kW | 24 kW | 28.8 kW |
| Max. input voltage | | | 1000 V | | |
| Rated voltage | | | 550 V | | |
| Start-up voltage | | | 160 V | | |
| MPPT voltage range | | | 200 - 850 V | | |
| Max. input current | | 20 A / 40 A | | 40 A / 40 A | 42 A / 42 A |
| Max. short circuit current | | 30 A / 50 A | | 50 A / 50 A | 50 A / 50 A |
| MPPT number / Max. input strings number | | 2 / 3 | | | 2 / 4 |
| Battery | | | | | |
| Battery type | | | Li-ion / Lead-acid | | |
| Battery voltage range | | | 40 - 60 V | | |
| Max. charge / discharge current | 180 A | 220 A | 250 A | 290 A | 320 A |
| Number of battery ports | | | 2 | | |
| Max. charge / discharge current of each port | | | 150 A | | 175 A |
| Communication | | | CAN / RS485 | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Max. apparent output power | 8 kVA | 10 kVA | 12 kVA | 15 kVA | 18 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 | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Power factor | | | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | | | < 3% | | |
| Input AC (Grid side) | | | | | |
| Max. input current | 18.3 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.0 A | 34.2 A / 32.5 A | 41 A / 39.2 A |
| Input Generator | | | | | |
| Max. input power | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Max. input current | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 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 (Back-up) | | | | | |
| Rated output power | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Max. apparent output power | | | 2 times of rated power, 10 s | | |
| 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 | | |
| Rated output current | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Max. continuous output current | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Max. continuous AC passthrough current | | | 50 A | | |
| THDv (@linear load) | | | < 3% | | |
| Efficiency | | | | | |
| Max. efficiency | | | 97.5% | | |
| EU efficiency | | | 96.4% | | |
| BAT charged by PV / AC max. efficiency | | | 95.0% / 94.4% | | |
| BAT discharged to AC max. efficiency | | | 94.5% | | |
| Protection | | | | | |
| Anti-islanding protection | | | Yes | | |
| Output over current protection | | | Yes | | |
| Short circuit protection | | | Yes | | |
| DC reverse-polarity protection | | | Yes | | |
| Surge protection | | | DC Type II / AC Type II (Optional) | | |
| Protection class / Over voltage category | | | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | |
| Integrated AFCI 2.0 | | | Optional | | |
| Integrated DC switch | | | Yes | | |
| General Data | | | | | |
| Max. power per phase | | | 50% rated power | | 40% rated power |
| Dimensions (W × H × D) | | | 430 × 660 × 305 mm | | |
| Weight | | | 42 kg | | |
| Topology | | | Non-isolated | | |
| Self-consumption (night) | | | < 30 W | | |
| Operating ambient temperature range | | | -25 ~ +60°C | | |
| Relative humidity | | | 0 - 100% | | |
| Ingress protection | | | IP66 | | |
| Noise emission (typical) | | | < 65 dB(A) | | |
| Cooling concept | | | Intelligent fan-cooling | | |
| Max. operation altitude | | | 4000 m | | |
| Grid connection standard | | | EN 50549-1/-10, VDE 4105&VDE 0124, NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, MEA, PEA, CEI 0-21 | | |
| Safety / EMC standard | | | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | |
| Features | | | | | |
| DC connection | | | MC4 Quick connection plug (PV) & Screw terminal (Battery) | | |
| AC connection | | | Screw terminal | | |
| Display | | | 7.0" LCD display & Bluetooth + APP | | |
| Communication | | | CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN | | |