

## 8kW Hybrid Inverter

Advanced Power Hybrid Inverter, 8kW, 40A

Model:

S6-EH1P8K-L-PRO



### Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control.
- Automatic UPS switching.
- 10 second 200% surge power backup overload capability.
- Supports 1ph and 3ph flexible connection with max 48kW in parallel.
- Up to 190A max charge/discharge current.
- 6 customisable charge/discharge time settings.
- Compatible with lead-acid and lithium batteries, with multiple battery protection features.
- Supports peak shaving control in both “self-use” and “generator” mode.

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| <b>Model</b>                          | <b>8K</b>                         |
| <b>Input DC (PV side)</b>             |                                   |
| Recommended max. PV power             | 12.8 kW                           |
| Max. input voltage                    | 600 V                             |
| Rated voltage                         | 330 V                             |
| Start-up voltage                      | 90 V                              |
| MPPT voltage range                    | 90 - 520 V                        |
| Max. input current                    | 32 A / 20 A                       |
| Max. short circuit current            | 36 A / 30 A                       |
| MPPT number/Max. input strings number | 2 / 3                             |
| <b>Battery</b>                        |                                   |
| Battery type                          | Li-ion / Lead-acid                |
| Battery voltage range                 | 40 - 60 V                         |
| Max. charge / discharge power         | 8 kW                              |
| Max. charge / discharge current       | 190 A                             |
| Communication                         | CAN/RS485                         |
| <b>Output AC (Grid side)</b>          |                                   |
| Rated output power                    | 8 kW                              |
| Max. apparent output power            | 8.8 kVA                           |
| Operation phase                       | 1/N/PE                            |
| Rated grid voltage                    | 220 V / 230 V                     |
| Rated grid frequency                  | 50 Hz / 60 Hz                     |
| Rated grid output current             | 36.4 A / 34.8 A                   |
| Max. output current                   | 40 A                              |
| Power factor                          | >0.99 (0.8 leading - 0.8 lagging) |
| THDi                                  | <2%                               |
| <b>Input AC (Grid side)</b>           |                                   |
| Input voltage range                   | 187 - 253 V                       |
| Max. input current                    | 50 A                              |
| Frequency range                       | 45-55 Hz / 55-65 Hz               |

|   |   |
|---|---|
| <b>Model</b>                                      | <b>8K</b>   |
| <b>Output AC (Back-up)</b>                        |   |
| Rated output power                                | 8 kW  |
| Max. apparent output power                        | 2 times of rated power, 10 s  |
| Back-up switch time                               | <4 ms   |
| Rated output voltage                              | 1/N/PE, 220 V / 230 V   |
| Rated frequency                                   | 50 Hz / 60 Hz   |
| Rated output current                              | 36.4 A / 34.8 A   |
| Max. output current                               | 40 A  |
| Max. AC Passthrough current                       | 50 A  |
| THDv (@linear load)                               | <2%   |
| <b>Efficiency</b>                                 |   |
| Max. efficiency                                   | > 97.5%   |
| EU efficiency                                     | > 96.2%   |
| <b>Protection</b>                                 |   |
| DC reverse-polarity protection                    | Yes   |
| Ground fault monitoring                           | Yes   |
| Integrated AFCI (DC arc-fault circuit protection) | Yes (Activation Required)   |
| Protection class/Over voltage category            | I/II  |
| <b>Protection</b>                                 |   |
| Dimensions (W*H*D)                                | 406*560*215 mm  |
| Weight  | 27 kg   |
| Topology  | High frequency isolation (for battery)                                      |
| Operating ambient temperature range               | -40 - +60°C   |
| Ingress protection                                | IP66  |
| Cooling concept                                   | Intelligent redundant fan-cooling   |
| Max. operation altitude                           | 4000m   |
| Grid connection standard                          | NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA |
| Safety/EMC standard                               | IEC/EN 62109-1/-2, EN 61000-6-2/-3  |
| <b>Features</b>                                   |   |
| DC connection                                     | MC4 plug (PV port) / Terminal Block (BAT port)                              |
| AC connection                                     | Terminal Block  |
| Display   | LED + APP   |
| Communication                                     | RS485, CAN, Optional: Wi-Fi, GPRS, LAN                                      |