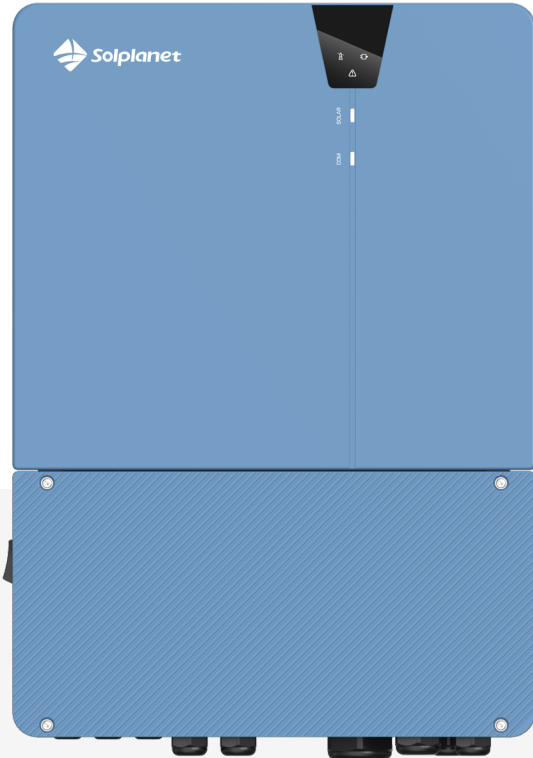


Single phase hybrid inverters 8 to 10 kW

ASW SH Series



Models:
ASW008K-SH
ASW010K-SH



Optimal performance

- 3 independent MPPTs for flexible and optimized large PV array design
- Max. 20 A input current per MPPT, ideal for bifacial and large area PV modules
- Up to 200% PV array oversizing for higher energy yields
- ShadeSol shadow management



Safe & Reliable

- UPS-level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Up to 200% power output for 10s during power outages
- Multi-source design for black start, integrating PV, battery, and generator



User-friendly

- Expandable up to 30 kW in on-grid and off-grid mode
- Compatible with both lead-acid and lithium batteries
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

ASW008K-SH

ASW010K-SH

| | | | |
|--|---|---|----------------|
| PV input | Max. PV array power | 16000 Wp | 20000 Wp |
| | Max. input voltage | 550 V | |
| | MPP voltage range / rated input voltage | 40~530 V / 380 V | |
| | Min. input voltage / start voltage | 40 V / 50 V | |
| | No. of independent MPPT trackers / strings per MPPT input | 3 / 1 | |
| | Max. input current / Max. power per MPP tracker | 20 A / 10000 W | 20 A / 10000 W |
| Max. short-circuit current per MPP tracker | | 25 A | |
| Battery input | Battery voltage range | 40 V to 60V | |
| | Max. charge / discharge power | 8000 W | 10000 W |
| | Max. charge current / Max. discharge current | 190 A | 210 A |
| | Battery type | LiFePO4 / Lead-acid | |
| AC output | AC voltage range / Nominal AC voltage | 154 V to 276 V / 220, 230, 240, L/N | |
| | Rated AC grid frequency | 50 Hz / 60 Hz | |
| | AC grid frequency range | 45~55 Hz / 55~65 Hz | |
| | Rated apparent power | 8000 VA | 10000 VA |
| | Max. apparent power | 8000 VA | 10000 VA |
| | Rated grid output current (@230 V) | 34.8 A | 43.5 A |
| | Max. grid output current (@230 V) | 38.3 A | 47.8 A |
| | Harmonic distortion (THD) at rated output | < 3 % (of nominal power) | |
| | Power factor at rated power / adjustable range | 1 / 0.8 leading to 0.8 lagging | |
| AC input | Nominal AC voltage | 220, 230, 240 V, L/N | |
| | Rated grid frequency | 50 Hz / 60 Hz | |
| | Max. input power from grid | 16000 W | 18000 W |
| | Max. input current from grid | 69.6 A | 78.3 A |
| EPS output | Nominal AC voltage | 220, 230, 240 V, L/N | |
| | Nominal output frequency | 50 Hz / 60 Hz | |
| | Rated apparent power | 8000 VA | 10000 VA |
| | Peak output apparent power (off-grid up to 10s) | 16000 VA | 20000 VA |
| | Rated current (@230 V) | 34.8 A | 43.5 A |
| | Max. current (@230 V, continuous on-grid / off-grid) | 38.3 A | 47.8 A |
| | Max. switch time | < 10 ms | |
| | Output THDv (@ Linear load) | 2 % | |
| Generator side | Max. input apparent power | 8000 VA | 10000 VA |
| | Max. charge / discharge power | 8000 VA | 10000 VA |
| | Max. input current | 36.4 A | 45.5 A |
| | Rated AC voltage | 220, 230, 240 V, L/N | |
| | Rated AC frequency | 50 Hz / 60 Hz | |
| Efficiency | MPPT efficiency | 99.9 % | |
| | European efficiency / Max. efficiency | 97 % / 97.6 % | |
| Safety protection | Surge protection | ● / Type II | |
| | Insulation resistance detection | ● | |
| | PV string input reverse polarity protection | ● | |
| | Ground fault monitoring | ● | |
| | Residual current monitoring unit | ● | |
| | AC short circuit protection | ● | |
| | Anti-islanding protection | ● | |
| General data | Dimensions (W / H / D) | 484 / 679 / 230 mm | |
| | Weight | 34.5 kg | |
| | Operating temperature range | -25 °C ... +60 °C | |
| | Cooling concept | Smart cooling | |
| | Degree of protection (as per IEC 60529) | IP66 | |
| | Max. relative humidity | 100 % | |
| | Max. operating altitude | 3000 m | |
| Features | User interface | LED & App | |
| | BMS interface | CAN | |
| | Communication interfaces | Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100Mbps, Modbus TCP only) | |
| | Digital output (dry contact) / No. of outputs | ● / 2 | |
| | Digital input (dry contact) / No. of inputs | ● / 6 | |
| | Integrated power control / export power control | ● / ● | |

● standard features ○ optional features

Version: Feb.2025

