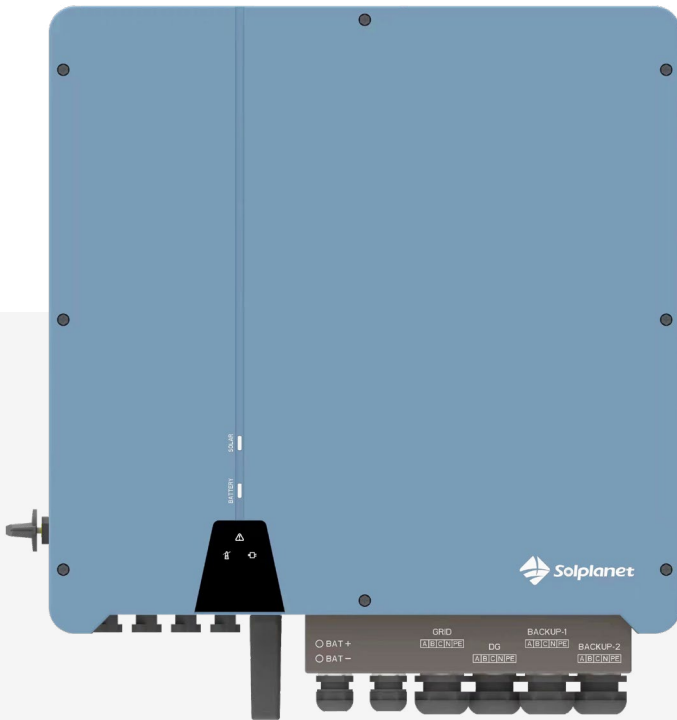


Three phase hybrid inverters 8 to 12 kW

Three phase hybrid inverters



ASW H-T1 SERIES
ASW08H-T1
ASW10H-T1
ASW12H-T1



Easy-to-install

- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



Reliable

- Smart energy management
- UPS capability - power during blackouts
- IP65 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Support unbalanced output

Technical DataSheet

ASW08kH-T1

ASW10kH-T1

ASW12kH-T1

| | | | | |
|-----------------------------|---|--|------------|---------------|
| PV Input | Max. PV array power | 12 kWp STC | 15 kWp STC | 18 kWp STC |
| | Max. input voltage | 1000 V | | |
| | MPP voltage range | 180 V ~ 850 V | | |
| | Min. input voltage / start voltage | 125 V/ 180 V | | |
| | No. of independent MPPT trackers / strings per MPPT input | 2 / (1/1) | | |
| | Max. input current per MPP tracker | 13 A | | |
| | Max. short-circuit current per MPP tracker | 25A | | |
| Battery input | Battery type | LiFePO4 | | |
| | Battery voltage range | 150 V to 600 V | | |
| | Max. charging/ discharging power | 8.8KW/8.8KW | 11kW/11kW | 13.2kW/13.2kW |
| | Max. charging current / discharging current | 50 A / 50 A | | |
| | Rated. charging current / discharging current | 40 A / 40 A | | |
| AC output | Nominal AC voltage | 3W+N+PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V | | |
| | AC voltage range | 360V~440V | | |
| | Rated AC grid frequency | 50 Hz / 60 Hz | | |
| | AC grid frequency range | 50 Hz±5Hz / 60 Hz±5Hz | | |
| | Rated active power | 8 kW | 10 kW | 12 kW |
| | Rated apparent power | 8 kVA | 10 kVA | 12 kVA |
| | Max. apparent power | 8.8 kVA | 11 kVA | 13.2 kVA |
| | Rated grid output Current (@400V) | 11.6 A | 14.5 A | 17.4 A |
| | Max. grid output current | 12.7A | 15.9A | 19.1A |
| | Harmonics THDi (@ Nominal power) | < 3% | | |
| AC input | Rated grid voltage | 3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | |
| | Rated grid frequency | 50Hz / 60Hz | | |
| | Rated apparent power | 16 kW | 20 kW | 24 kW |
| | Max. input apparent power from grid | 17.6 kVA | 22 kVA | 26.4 kVA |
| | Rated input current from grid | 23.1 A | 28.9 A | 34.7 A |
| | Max. input current from grid | 25.5 A | 31.8 A | 38.2 A |
| EPS output | Nominal output voltage | 3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | |
| | Nominal output frequency | 50 Hz / 60 Hz | | |
| | Rated apparent power | 8 kVA | 10 kVA | 12 kVA |
| | Max. output apparent power | 8 kVA | 10 kVA | 12 kVA |
| | Peak output apparent power | 8.8 kVA | 11 kVA | 13.2 kVA |
| | Rated Current (@400V) | 11.6 A | 14.5 A | 17.4 A |
| | Max. output current | 12.7 A | 15.9 A | 19.1 A |
| | Max. switch time | ≤20 ms | | |
| Output THDi (@ Linear load) | <2% | | | |
| Efficiency | MPPT efficiency | ≥99.5% | | |
| | Max efficiency | 97.90% | 98.20% | 98.20% |
| | Euro efficiency | 97.20% | 97.50% | 97.50% |
| | Max. battery to load efficiency | 97.50% | 97.50% | 97.60% |
| Safety protection | DC-side disconnection device | ● | | |
| | PV string- / Battery input reverse polarity protection | ● / ● | | |
| | All-pole sensitive residual current monitoring unit | ● | | |
| | Anti-islanding protection | ● | | |
| | Ground fault protection | ● | | |
| | AC output over current protection | ● | | |
| | AC output short circuit current protection | ● | | |
| | AC over voltage protection | ● | | |
| | Protection class (as per IEC 62109-1) | I | | |
| | overvoltage category (as per IEC 62109-1) | AC: III; DC: II | | |
| General data | Power factor at rated power / adjustable displacement | ≥0.99 / 0.8 leading to 0.8 lagging | | |
| | Dimensions (W / H / D) | 530 / 200 / 560 mm | | |
| | Device weight | 30kg | 31kg | 32kg |
| | Operating temperature range | -25 °C ... +60 °C | | |
| | Noise emissions (typical) | < 35 dB(A) | | |
| | Standby consumption | < 3 W | | |
| | Cooling concept | Natural convection | | |
| | Ingress protection rating (as per IEC 60529) | IP65 | | |
| | Climatic category (according to IEC 60721-3-4) | 4K4H | | |
| | "Max. permissible value for relative humidity (non-condensing)" | 0~95% | | |
| | Max. operating altitude | 4000m (>2000m power derating) | | |
| | Country of Manufacture | THE PEOPLE'S REPUBLIC OF CHINA | | |



Technical DataSheet

ASW08kH-T1

ASW10kH-T1

ASW12kH-T1

| | ASW08kH-T1 | ASW10kH-T1 | ASW12kH-T1 |
|-------------------|--|---|------------|
| Features | Inverter topology (Solar/ battery) | Transformerless / Transformerless | |
| | User interface | LED & App | |
| | Communication with BMS | RS485 / CAN | |
| | Communication with meter | RS485 | |
| | Communication with portal | WIFI stick | |
| | Integrated power control / Zero export control | ● / ● | |
| Certif- icates | Grid | EN 50549-1,RfG 3 | |
| | Safty | EN 62109-1, EN 62109-2 | |
| | EMC | IEC 61000-6-1/-2/-3/-4, IEC 61000-3-11, IEC61000-3-12 | |

● Standard features / ○ optional features / – not available

Version: July 2022

