

Inverter ASW H-S2 Series

Single phase hybrid inverters 3 to 6 kW



Technical Datasheet

| | | ASW3000H-S2 | ASW3680H-S2 | ASW4000H-S2 | ASW5000H-S2 | ASW6000H-S2 |
|--|---|------------------------------------|-------------|-------------|-------------|-------------|
| PV Input | Max PV array power | 5500 Wp STC | 6180 Wp STC | 6500 Wp STC | 7500 Wp STC | 9000 Wp STC |
| | Max input voltage | 550V | | | | |
| | MPP voltage range / rated input voltage | 40V to 530V/380V | | | | |
| | Min.input voltage / start voltage | 40V/50V | | | | |
| | No. of independent MPPT trackers / strings per MPPT input | 2/1 | | | | |
| | Max input current per MPP tracker | 16A | | | | |
| Battery input | Max short-circuit current per MPP tracker | 20A | | | | |
| | Nominal battery voltage | 48V | | | | |
| | Battery voltage range | 40V to 60V | | | | |
| | Max charging / discharging power | 5000W / 5000W | | | | |
| | Max charging current / Max discharging current | 100A / 100A | | | | |
| | Battery type | Li-Ion | | | | |
| AC output | Compatible Battery | Aiswei Ai-LB series | | | | |
| | AC voltage range / Nominal AC voltage | 180V to 280V / 230V | | | | |
| | Rated AC grid frequency | 50Hz / 60Hz | | | | |
| | AC grid frequency range | 50Hz±5Hz / 60Hz±5Hz | | | | |
| | Rated active power | 3000 W | 3680 W | 4000 W | 5000 W | 6000 W |
| | Rated apparent power | 3000 VA | 3680 VA | 4000 VA | 5000 VA | 6000 VA |
| | Max apparent power | 3000 VA | 3680 VA | 4000 VA | 5000 VA | 6000 VA |
| | Rated grid output Current(@230V) | 13.1 A | 16 A | 17.4 A | 21.7 A | 26.1 A |
| Max grid output current | 13.6 A | 16 A | 18.2 A | 22.7 A | 27.3 A | |
| Harmonics THDi(@ Nominal power) | < 3% | | | | | |
| AC input | Rated grid voltage | a.c. 230V | | | | |
| | Rated grid frequency | 50Hz / 60Hz | | | | |
| | Rated apparent power | 6000 VA | | | | |
| | Max input apparent power from grid | 6000 VA | | | | |
| | Rated input current from grid | a.c.26.1A | | | | |
| | Max input current from grid | a.c.27.3A | | | | |
| EPS output | Nominal output voltage | 230V | | | | |
| | Nominal output frequency | 50Hz / 60Hz | | | | |
| | Rated apparent power | 5000 VA | | | | |
| | Max output apparent power | 5000 VA | | | | |
| | Peak output apparent power | 7500VA,10s | | | | |
| | Rated Current(@230V) | 26.1A | | | | |
| | Max output current | 22.7 A | | | | |
| | Max switch time | ≤10 ms | | | | |
| Outout THDi(@ Linear load) | < 3% | | | | | |
| Effi- | MPPT efficiency | 99.9% | | | | |
| | Euro efficiency / Max efficiency | 97%/97.6% | | | | |
| | Max. battery to load efficiency | 94.7% | | | | |
| 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 / short circuit current protection | * / * | | | | |
| | AC over voltage protection | * | | | | |
| Protection class (as per IEC 62109-1) / over voltage category (as per IEC 62109-1) | I/AC:III; DC:II | | | | | |
| General data | Power factor atrated power / adjustable displacement | ≥0.99 / 0.8 leading to 0.8 lagging | | | | |
| | Dimensions (W/H/D) | 494 / 420 / 195 mm | | | | |
| | Device weight | 21.5kg | | | | |
| | Operating temperature range | -25°C...+60°C | | | | |
| | Noise emissions (typical) | 03 dB(A) | | | | |
| | standby consumption | <10 W | | | | |
| | Cooling concept | Natural convection | | | | |
| | Degree of protection(as per IEC 60529) | P66 | | | | |
| | Climatic category(according to IEC 60721-3-4) | 4K4H | | | | |
| | Max. permissible value for relative humidity (non-condensing) | 100% | | | | |
| Max operating altitude | 4000m (>3000m power derating) | | | | | |
| Features | User interface | LED & APP | | | | |
| | Communication with BMS | RS485 / CAN | | | | |
| | Communication with meter | RS485 | | | | |
| | Communication with portal | WIFIstick | | | | |
| | Other communication | DRM | | | | |
| | Integrated power control / Zero export control | * / * | | | | |

* Standard features / o optional features / - not available

*1 For VDE-AR-N4105, S_{max}=S_n=4600VA, P_n=4600W

*2 For AS/NZS4777.2, I_{ac max}=21.7 Version: March 2022