

Three phase inverters 5kW to 50 kW

ASW LT-G2 Series



Models:

- ASW5K-LT-G2
- ASW6K-LT-G2 PRO
- ASW10K-LT-G2
- ASW15K-LT-G2
- ASW20K-LT-G2
- ASW25K-LT-G2 PRO
- ASW30K-LT-G2
- ASW50K-LT-G2



Easy-to-install

- Quick & easy-to-install with standard tools
- Compact, wall mount and plug-in AC connector
- Quick Wi-Fi set up with Solplanet App



Reliable

- International quality standards
- Built in SPD Module
- IP65 rated for outdoor use



User-friendly

- High DC/AC ratio up to 150 %
- Wide MPPT range 150V-1000V
- Dual MPPT for flexible installation



Technical Data Sheet

| | ASW 5K-LT-G2 | ASW 6K-LT-G2 Pro | ASW 10K-LT-G2 | ASW 15K-LT-G2 | ASW 20K-LT-G2 | ASW 25K-LT-G2 Pro | ASW 30K-LT-G2 | ASW 50KLT-G2 | | |
|-------------------------|--|---|---|--|------------------|----------------------|------------------------------|--|-----------------|--|
| Input (DC) | Max PV array power | 7500 Wp STC | 9000 Wp STC | 15000 Wp STC | 22500 Wp STC | 30000 Wp STC | 37500 Wp STC | 45000 Wp STC | 75000 Wp STC | |
| | Max input voltage | 1100 V | | | | | | 1100 V | | |
| | MPP voltage range/rated input voltage | 150 V to 1000 V / 630 V | | | | | | 200 V to 1000 V / 630 V | | |
| | Min input voltage | 125 V | | | | | | 200 V | | |
| | Initial feed-in voltage | 125 V | 180 V | 125 V | | | 180 V | 250 V | | |
| | Max operating input current | 26 A/13 A | 16 A/16 A | 26 A/13 A | 26 A/26 A | | 40A/32A | 26 A | | |
| | Max short circuit current | 40 A/20 A | 25 A/25 A | 40 A/20 A | 40 A/40 A | | 60A/48A | 40 A | | |
| | Number of independent MPP inputs/strings per MPP input | 2/A1:B1 | | | 2/A2:B1 | 2/A2:B2 | 2/A2:B2 | 3/2 | 5/2 | |
| Output (AC) | Rated power | 5000 W | 6000 W | 10000 W | 15000 W | 20000 W | 25000 W | 30000 W | 50000 W | |
| | Rated apparent power | | 6000 VA | | | | 25000 VA | | | |
| | Max apparent AC power | 5000 VA | 6600 VA 3&4 | 10000 VA | 15000 VA | 20000 VA | 27500 W3&4 | 30000 VA | 50000 VA | |
| | AC nominal voltage | 220 V / 380 V - 230 V / 400 V - 240 V / 415 V | | | | | | 220 V / 380 V 230 V / 400 V | | |
| | AC voltage range | 160 V to 300 V | | | | | | 180 to 305 V / 312 to 528 V | | |
| | AC grid frequency/range | 50 Hz / 45 Hz to 55 Hz - 60 Hz / 55 Hz to 65 Hz | | | | | | 50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz | | |
| | Rated grid frequency/rated grid voltage | 50 Hz / 230 V | | | | | | 50 Hz / 230 V | | |
| | Max output current | 8.0 A | 9.6 A | 16 A | 24 A | 31.9 A | 39.8 A | 50.0 A | 80.0 A | |
| | Power factor at rated power | 1 | | 1 | | | | 1 | | |
| | Adjustable displacement power factor | 0.8 overexcited to 0.8 underexcited | | | | | | | | |
| | Feed-in phases | 3 | 3/3-N-PE | 3 | | | 3/3-N-PE | 3/3-N-PE | | |
| | Harmonic distortion (THD) at rated output | <3% | | | | | | <=3% | | |
| Efficiency & Protection | Max efficiency/European efficiency | 98.4%/98.0% | 96.3%/97.9% | 98.6%/98.2% | | | 98.6%/98.3% | | | |
| | Input-side disconnection device | | | • | | | • | | | |
| | Ground fault monitoring/ grid monitoring | | | •/• | | | •/• | | | |
| | DC reverse polarity protection/AC short circuit current capability | | | •/• | | | •/• | | | |
| | All-pole-sensitive residual-current monitoring unit | | | • | | | • | | | |
| | DC Surge arrester | | | • | | | • | | | |
| | AC Surge protection | • | •/Type II | • | | | •/Type II | • | | |
| | Protection class(according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | 1/AC, III:DC:II | | | | | | | | |
| | Dimensions (W/H/D) | 503/435/183 mm | | | | | | 670/580/270 mm | | |
| | Weight | 16.0 kg | <15 kg | 17.3 kg | 17.3 kg | 18.6 kg | 18.6 kg | 42 kg | 43 kg | |
| General data | Operating temperature range | -25°C - +60°C | | | | | | | | |
| | Self-consumption (at night) | <1W | | | | | | | | |
| | Topology | Transformerless | Non-isolated | Transformerless | | | Non-isolated | Transformerless | | |
| | Cooling concept | Convection | Natural Convection | Active cooling | | | | | | |
| | Degree of protection (according to IEC 60529) | IP65 | | | | | | | | |
| | Climatic category (according to IEC 60721-3-4) | 4K4H | | | | | | | | |
| | Max permissible value for relative humidity (non-condensing) | 100% | | | | | | | | |
| | Max operating altitude | 3000 m | | | | | | | | |
| Features | DC connection | Phoenix contact | Plug-in Connector | Phoenix contact | | | Plug-in Connector | Phoenix contact | | |
| | AC connection | Plug-in Connector | | | | | | OT Connector | | |
| | Mounting type | Wall-mounting bracket | | | | | | | | |
| | LED Indicators (Status/ Fault/Communication) | • | | | | | | | | |
| | Communication interface 1 & 2 | Wi-Fi/RS485 | •/•/•/• (RS485/Wi-Fi/LAN/4G) | Wi-Fi/RS485 | | | Wi-Fi/4G/RS485 (Optional) | Wi-Fi/RS485 | | |
| | Country of Manufacture | China | | | | | | | | |
| | Certificates and approvals (more available on request) | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777 | CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004 | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11 | | | | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, AS/NZS4777, C10/C11 | | |

• Standard features / • optional features / - not available

1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

2- DRED supported with RS485 communication for Australia & New Zealand

3) The overload setting is disabled as default for AS/NZS4777 grid codes

4) For European and AS/NZS4777 grid codes the max. apparent AC power is equal to the rated power

Data at nominal conditions. All information is subject to change.



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