

Three phase inverters 40 to 50 kW

ASW LT-G2 Pro Series



Models:
ASW40K-LT-G2 Pro
ASW45K-LT-G2 Pro
ASW50K-LT-G2 Pro



Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



Reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



User-friendly

- 16 A input current, ideal for bifacial and large area PV modules
- 5 MPPTs for flexible PV array design
- Wide MPP voltage range 200V-1000V
- ShadeSol shadow management

Technical Datasheet

ASW40K-LT-G2 Pro

ASW45K-LT-G2 Pro

ASW50K-LT-G2 Pro

| | ASW40K-LT-G2 Pro | ASW45K-LT-G2 Pro | ASW50K-LT-G2 Pro | |
|---|---|---|------------------|--------------|
| Input (DC) | Max. PV array power | 60000 Wp STC | 67500 Wp STC | 75000 Wp STC |
| | Max. input voltage | 1100 V | | |
| | MPP voltage range / rated input voltage | 200 V - 1000 V / 630 V | | |
| | Min. input voltage | 200 V | | |
| | Initial. feed-in voltage | 250 V | | |
| | Max. operating input current | 32A | | |
| | Max. short circuit current | 48A | | |
| | No. of independent MPPT inputs / strings per MPPT input | 4 / 2 | 4 / 2 | 5 / 2 |
| Output (AC) | Rated active power | 40000 W | 45000 W | 50000 W |
| | Rated apparent power | 40000 VA | 45000 VA | 50000 VA |
| | Max. apparent power | 40000 VA | 45000 VA | 50000 VA |
| | AC nominal voltage | 220 V / 380 V 230 V / 400 V | | |
| | AC voltage range | 180 V to 305 V / 312 V to 528 V | | |
| | AC grid frequency / range | 50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz | | |
| | Max. output current | 66.7 A | 75.0 A | 80.0 A |
| | Adjustable power factor range | 0.8 leading to 0.8 lagging | | |
| | Feed-in phases | 3 / 3-N-PE | | |
| | Harmonic distortion (THD) at rated output | < 3% | | |
| Efficiency & Protection | Max. efficiency / European efficiency | 98.6% / 98.3% | | |
| | DC switch | ● | | |
| | Ground fault monitoring / grid monitoring | ● / ● | | |
| | DC reverse polarity protection / AC short circuit protection | ● / ● | | |
| | All-pole-sensitive residual-current monitoring unit | ● | | |
| | Anti-islanding Protection | ● | | |
| | Surge protection | ● / Type II | | |
| Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II | | | |
| General data | Dimensions (W / H / D) | 670 / 640 / 270 mm | | |
| | Weight | 43 kg | | |
| | Operating temperature range | -25°C ... +60°C | | |
| | Self-consumption (at night) | < 1 W | | |
| | Topology | Non-isolated | | |
| | Cooling concept | Active cooling | | |
| | Degree of protection (according to IEC 60529) | IP66 | | |
| | 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 | Plug-in connector | | |
| | AC connection | OT connector | | |
| | Mounting type | Wall-mount bracket | | |
| | LED indicators (Status / Fault / Communication) | ● | | |
| | Communication interface | ●/●/○/○ (RS485 / Wi-Fi/ LAN /4G) | | |
| | Country of manufacture | China | | |
| | Certificates and approvals (more available on request) | CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004 | | |

● Standard features / ○ optional features / – not available

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

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