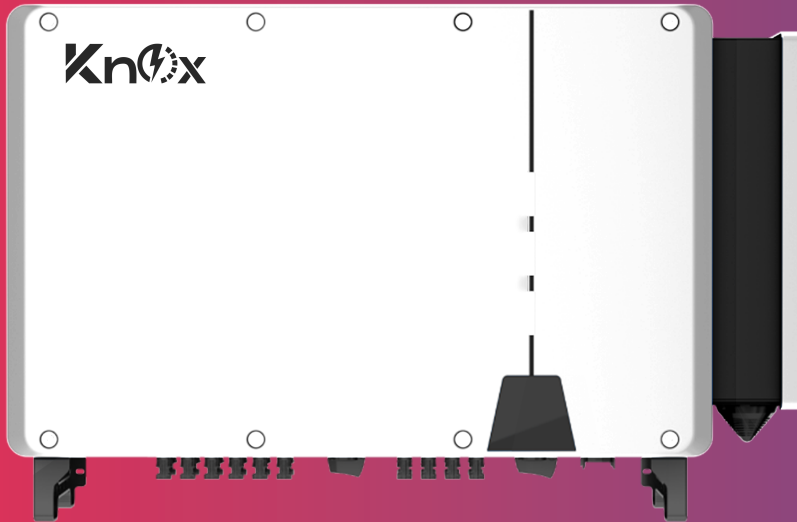


ASW LT Series

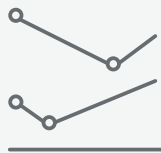


Models:
ASW80K-LT
ASW100K-LT
ASW110K-LT



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Type II surge protection DC and AC
- IP66 rated design for outdoor use



Higher Yields

- 150 % PV array oversizing for higher yields
- “ShadeSol” shadow management function
- 16 A input current per string, ideal for bifacial and large area PV modules
- 10 MPPT’s for flexible PV array design



User-friendly

- 24/7 system monitoring
- Quick setup and commissioning with Solplanet apps
- Fuse free design with string-level management

Technical Datasheet

ASW 80K-LT

ASW 100K-LT

ASW 110K-LT

| | ASW 80K-LT | ASW 100K-LT | ASW 110K-LT | |
|---|---|--|------------------------|------------------------|
| Input (DC) | Max. PV array power | 120000 Wp STC | 150000 Wp STC | 165000 Wp STC |
| | Max. input voltage | 1100 V | | |
| | MPP voltage range / rated input voltage | 200V - 1000 V / 630 V | | |
| | Min. input voltage | 200 V | | |
| | Initial. feed-in voltage | 250 V | | |
| | Max. operating input current | 32 A | | |
| | Max. short circuit current | 48 A | | |
| | No. of independent MPPT inputs / strings per MPPT input | 8/2 | 10/2 | 10/2 |
| Output (AC) | Rated active power | 80000 W | 100000 W | 110000 W |
| | Max. apparent AC power | 88000 VA | 110000 VA ¹ | 121000 VA ¹ |
| | AC nominal voltage | 220 V / 380 V 230 V / 400 V | | |
| | AC voltage range | 312 V - 528 V | | |
| | AC grid frequency / range | 50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz | | |
| | Nominal AC output current | 115.8 A | 144.3 A | 158.8 A |
| | Max. AC output current | 127.0 A | 158.8 A | 174.7 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 % / 98.4 % | |
| DC switch | | ● | | |
| Ground fault monitoring / grid monitoring | | ● / ● | | |
| DC reverse polarity protection / AC short circuit protection | | ● | | |
| AC Overcurrent Protection | | ● | | |
| DC Surge Protection | | Type II | | |
| AC Surge Protection | | Type II | | |
| All pole sensitive residual current monitoring unit | | ● | | |
| Anti-islanding protection | | ● | | |
| 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) | 984/ 640 / 330 mm | | |
| | Weight | 85 kg | | |
| | Operating temperature range | -25°C ... +60°C | | |
| | Self-consumption (at night) | < 3 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 | 4000 m | | |
| | EMC | Class B | | |
| Features | DC connection | Phoenix Contact | | |
| | AC connection | OT/DT Terminal (Max.240mm2) | | |
| | LED indicators (Status / Fault / Communication) | ● | | |
| | Communication interface (RS485/ WiFi /4G) | ● / ● / ○ | | |
| | Modbus sunspec protocol ² | ● | | |
| | Certificates and approvals (more available on request) | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, AS/NZS4777, C10/C11,G99 | | |

● standard features ○ optional features

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

1- Overload setting is disabled as default for EU and AS/NZS4777 grid codes, rated active power equals the max. apparent AC power

2- Sunspec 100 and 700 series protocols are supported

Version: July 2022



Electro Industries Private Limited
Warranty Claim: 0304-111-5669(KNOX)
www.knoxpv.com