

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 appss
- 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 MPPT's for flexible PV array design
- Wide MPP voltage range 200V-1000V

# Technical Datasheet

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 / 620 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<br>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<br>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                                           | ●                                                                         |              |              |
|                         | 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                                                                                        | 42.5 kg                                                                   | 42.5 kg      | 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                                                                       | Wi-Fi / 4G / RS485 (Optional)                                             |              |              |
|                         | 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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