

Quick Installation Guide

ASW45K-LT-G3/ASW50K-LT-G3/ASW60K-LT-G3





1 GENERAL INFORMATION

This quick installation guide does not replace the description in the user manual. The contents of this guide may be updated or revised due to product development. The information in this guide is subject to change without notice. The latest version of this document and the manual for installation, commissioning, configuration and decommissioning are to be found in PDF format at www.solplanet.net.

2 SAFETY

2.1 Intended use

The product is a transformerless PV inverter which converts the direct current of the PV generator into grid-compatible three-phase alternating current and then feeds the three-phase alternating current into the public power grid.

The product is intended for indoor and outdoor applications.

The product must only be connected with PV modules of protection class II (in accordance with IEC 61730, application class A). Do not connect any sources of energy other than PV modules to the product.

The product is not equipped with an integrated transformer and therefore has no galvanic isolation. The product must not be operated with PV modules which require functional grounding of either the positive or negative PV conductors. This can cause the product to be irreparably damaged. The product may be operated with PV modules with frames that require protective earthing.

All components must remain within their permitted operating ranges and their installation requirements at all times.

Use the product only in accordance with the information provided in the user manual and with the locally applicable standards and directives. Any other application may cause personal injury or damage to property.

The product must only be used in countries for which it is approved by Solplanet and the grid operator.

The type label must be permanently attached to the product and must be in a legible condition. This document does not replace any regional, state, provincial, federal or national laws, regulations or standards that apply to the installation, electrical safety and use of the product.

2.2 Important safety instructions

The product has been designed and tested strictly according to the international safety requirements. As with all electrical or electronical devices, there are residual risks despite careful construction. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

▲ DANGER

Danger to life due to high voltages of the PV array!

When exposed to sunlight, the PV array generates dangerous DC voltage which is present in the DC conductors and the live components of the product. Touching the DC conductors or the live components can cause to lethal electric shocks. If you disconnect the DC connectors from the product under load, an electric arc may occur leading to electric shock and burns.

- Do not touch non-insulated cable ends.
- Do not touch the DC conductors.
- Do not touch any live components of the product.
- Do not open the product.
- All work on the product must only be carried out by qualified personnel who have read and fully understood all safety information contained in this document and the user manual.
- Disconnect the product from voltage and energy sources and ensure it cannot be reconnected before working on the product.
- Wear suitable personal protective equipment for all work on the product.

⚠ DANGER

Danger to life due to electric shock when touching live system components in case of a ground fault!

If a ground fault occurs, parts of the system may still be live. Touching live parts and cables may result in death or lethal injuries due to electric shock.

- Disconnect the product from voltage and energy sources and ensure it cannot be reconnected before working on the device.
- Only touch the insulation of the cables of the PV modules.
- Do not touch any parts of the substructure or frame of the PV array.
- Do not connect PV strings with ground faults to the product.

▲ WARNING

Danger to life due to electric shock from destruction of the measuring device due to overvoltage!

Overvoltage can damage a measuring device and result in voltage being present in the enclosure of the measuring device. Touching the live enclosure of the measuring device results in death or lethal injuries due to electric shock.

• Only use measuring devices with the measurement span higher than the DC input voltage range equal to or higher than the voltage rating of the product.

▲ CAUTION

Risk of burns due to high temperature.

Some parts of the enclosure can become hot during operation.

• During operation, do not touch any parts other than the enclosure lid of the product.

▲ CAUTION

Risk of injury due to weight of product.

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Transport and lift the product carefully. Take the weight of the product into account.
- Wear suitable personal protective equipment for all work on the product.



Beware of a danger zone

This symbol indicates that the inverter must be additionally grounded if additional grounding or equipotential bonding is required at the installation site.



Beware of high voltage and operating current The inverter operates at high voltage and current. Work on the inverter must only be carried out by skilled and authorized electricians.



Beware of hot surfaces The inverter may become hot during operation. Avoid contact during operation.



WEEE designation

Do not dispose of the product together with the household waste but in accordance with the disposal regulations for electronic waste applicable at the installation site.



CE marking

The product complies with the requirements of the applicable EU directives.



Certification mark The product has been tested by TUV and got the quality certification mark.



RCM Mark

The product complies with the requirements of the applicable Australian standards.



Capacitor discharge

Danger to life due to high voltages in the inverter. Do not touch live parts for 25 minutes after disconnection from the power sources.



Observe the documentation Observe all documentation supplied with the product.

3 Eu Declaration Of Conformity

Within the scope of the EU directives

4

 Radio Equipment Directive 2014/53/EU (L 153/62-106. May 22. 2014) (RED)

CE

 Restriction of the use of certain hazardous substances 2011/65/EU (L 174/88, June 8, 2011) and 2015/863/EU (L 137/10, March 31,2015) (RoHS)

AISWEI Technology Co., Ltd. confirms here with that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives.

The entire EU Declaration of Conformity can be found at www.solplanet.net.

Overview

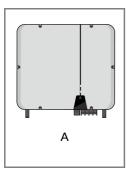
No.	Name
1	DC-switch
2	DC connector inputs
3	COM 1 - Connecting the Wi-Fi stick
4	Additional grounding screw
5	COM2 - RS485 connection
6	AC terminal

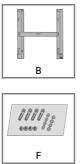
COM 3&4 - Connection of Ripple control receiver /NA protection device (Optional)

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COM 3&4 is standard on European machines only. It is optional on other markets.

5 Scope of Delivery







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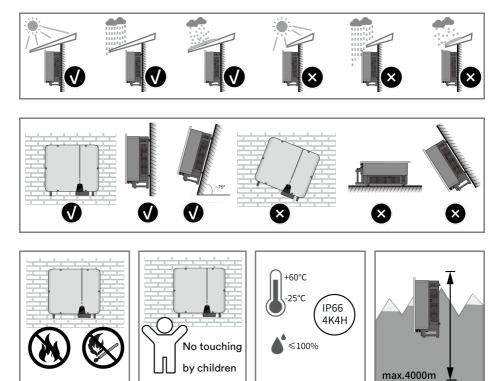
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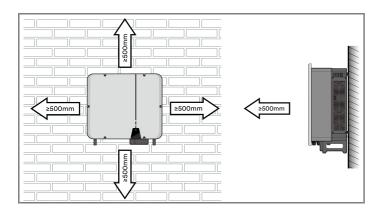


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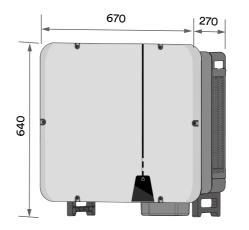
NO.	Name	Quantity
А	Inverter	1
В	Mounting-bracket	1
С	AC/COM cover	1
D	DC connector	10
E	Wi-Fi stick	1
F	Screw accessory	1
G	AC insulation sheet	3
Н	Document package	1
I	RJ45 Connection waterproof housing	2 (Optional)

6 Mounting Environment





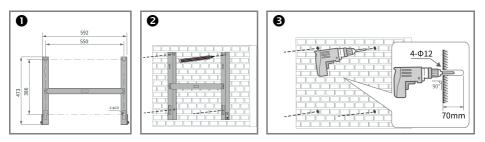
7 DIMENSIONS

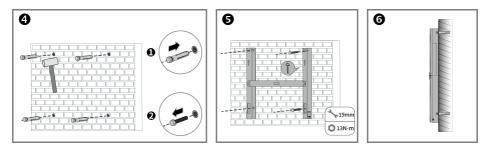


Unit: mm

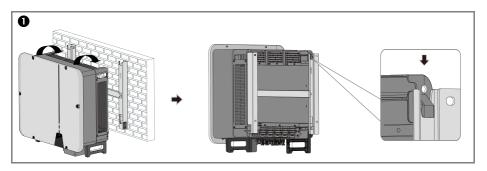
8 Mounting

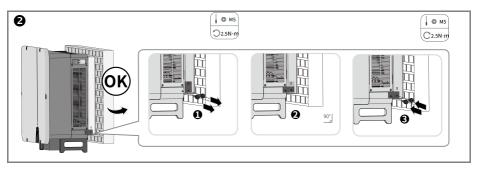
8.1 Mounting-bracket



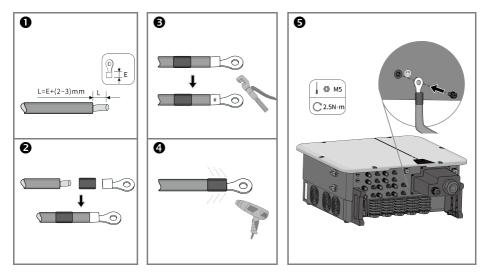


8.2 Wall-Mounted Installation

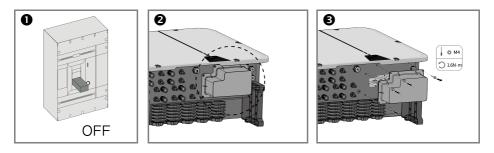


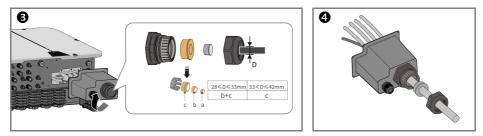


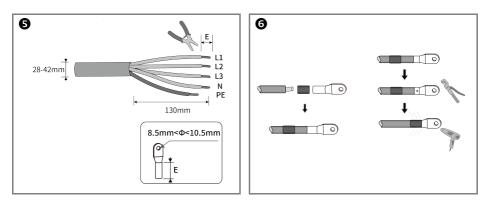
9 Second Protective Grounding

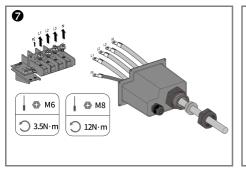


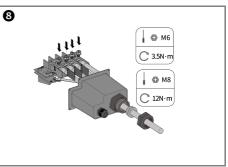
10 AC Connection

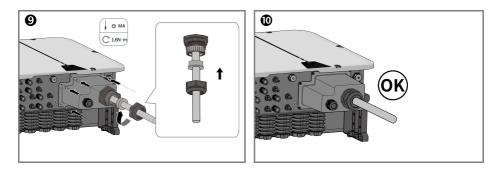






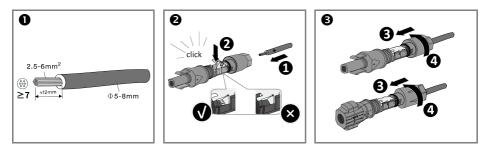


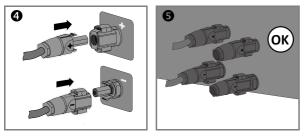




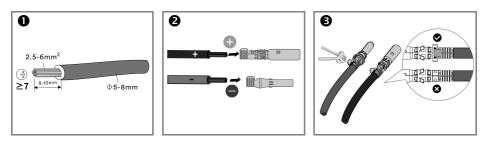
11 DC Connection

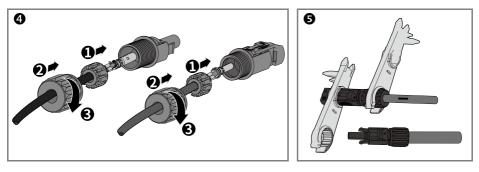
TYPE 1

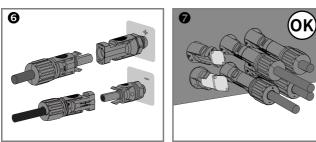




TYPE 2

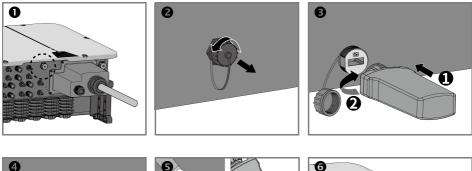


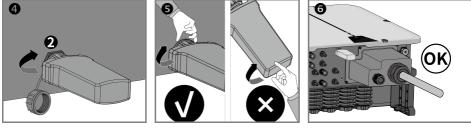




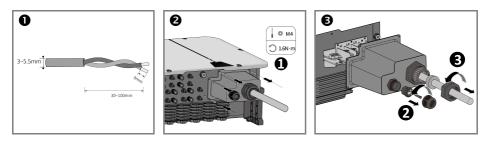
12 Communication Connection

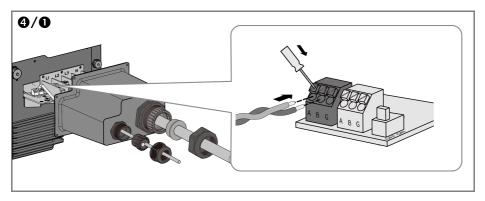
12.1 COM 1 - Wi-Fi/LAN/4G stick connection

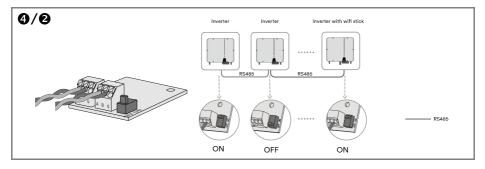


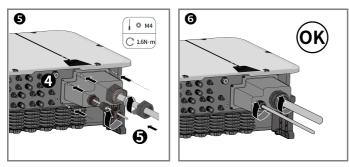


12.2 COM2 - RS485 connection



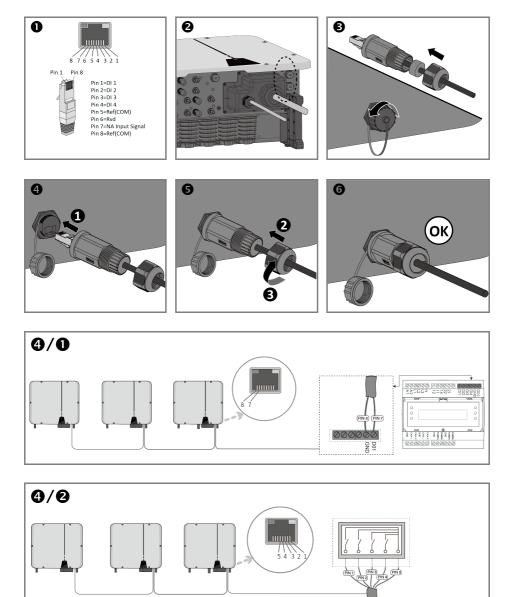






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12.3 COM 3&4 - Connection of Ripple control receiver /NA protection device (Optional)



13 Contact

Please contact our Service Department if you have any technical questions about our products.

The following information is needed to provide necessary assistance:

- ---Inverter model
- ---Inverter serial number
- ---Photovoltaic module model
- ---Photovoltaic modules number and strings number connected to each MPPT
- ----Fault code

---Installation location

----Warranty card

EMEA

Service email: service.EMEA@solplanet.net APAC Service email: service.APAC@solplanet.net LATAM Service email: service.LATAM@solplanet.net Aiswei Greater China Service email: service.china@aiswei-tech.com Hotline: +86 400 801 9996 Taiwan Service email: service.taiwan@aiswei-tech.com Hotline: +886 809089212 https://solplanet.net/contact-us





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