



QUICK INSTALLATION GUIDE

5G PRO INVERTER

KSY:- 3KW- 12KW - 3Ph

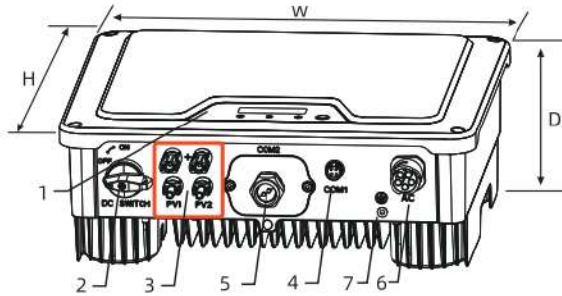
Three-Phase Grid-tied Solar Inverter

K Solare Quick Installation Guide

KSY-3KW-12KW - 3Ph

1. Product Overview

1. LCD&LED or LED
2. DC switch (optional)
3. PV Terminal (s)
4. COM1: Wi-Fi /GPRS Stick(optional)
5. COM2: Meter /RS485 /DREDTerminal
6. AC Terminal
7. Second PE Terminal



Dimension:W×H×D=425×346×160mm

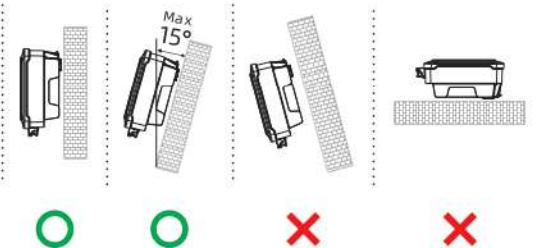
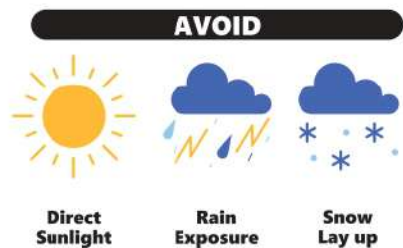
2. Packing List

Inverter	Mounting Bracket	Mounting Accessories	DC Plugs MC4 or D4 (optional)	AC Connector	Wi-Fi /GPRS stick (optional)	Documents
1	1	1	2	1	1	1

3. Installing

Installation Requirements

1. Please install the inverter(s) in places that can avoid inadvertent contact.
2. Please install the inverter on solid/smooth surfaces.
3. The inverter(s) should not be installed near inflammable or explosive objects.

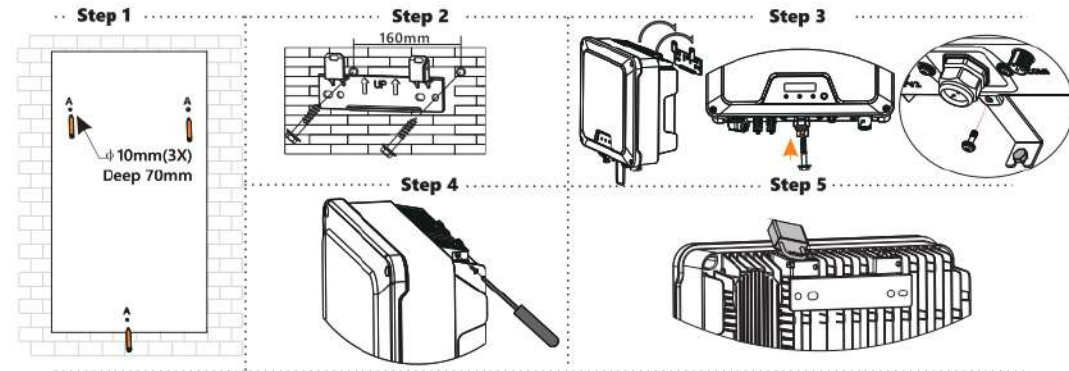


Cable Specifications

No	Item	Type	Specifications
1	PE cable	Outdoor copper cable	• Conductor cross-section: 4-6 mm ²
2	AC Output cable	Outdoor copper cable	• Conductor cross-section: 4-6 mm ² • Cable outer diameter: 12-18 mm
3	DC Input cable	Standard outdoor PV cable, PV1-F Model recommended	• Conductor cross-section: 2.5-6 mm ² • Cable outer diameter: 5-8 mm
4	Meter/RS485	Outdoor shielded twisted pair cable	• Conductor cross-section: 0.14-1.5 mm ² • Cable outer diameter: approx. 9 mm
5	DRED	CAT-5E, outdoor shielded cable Standard for EIA/TIA 568B	• Cable outer diameter: approx. 9 mm • cable maximum length 1000m

3.1 Mounting

- 3.1.1 Use the mounting paper guide to mark holes on the wall, Drill three holes in the marked position of 10mm diameter and 70mm depth
- 3.1.2 Fix the expansion bolts and mount the main bracket with the screws in mounting accessories
- 3.1.3 Attach the inverter to the mounting bracket. Mount the supporting bracket at the bottom of the inverter
- 3.1.4 Check both sides of heat sink and ensure the inverter is stably attached
- 3.1.5 Use M5 screw (torque:2.5Nm) to attach the heat sink fins to the mounting bracket
- 3.1.6 It is recommended to attach an anti-theft lock to the inverter

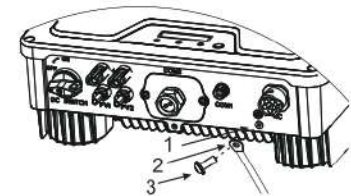


3.2 Installing the PE Cable

A second PE terminal is equipped at the bottom of the inverter. Ensure the PE terminal is reliably grounded

Object	Description
1	Housing
2	M5 terminal lug with protective conductor
3	M5×13 pan head screw

Tighten it firmly into the housing (T25 screwdriver, torque: 2.5Nm).



NOTICE

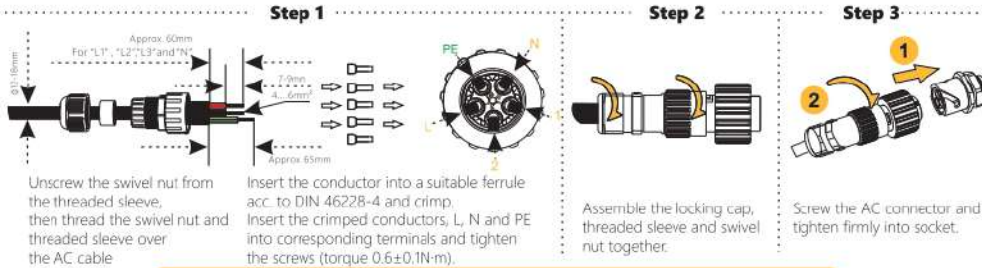
Proper grounding connection of the second PE terminal and the AC terminal is mandatory. NOT properly connecting both PE will void all product warranty.

3.2 AC Wire Assembly and Connection

⚠ DANGER

Danger to Life due to High Voltages in the Inverter

Before connecting any electrical wires and components, please ensure the DC switch & AC circuit breaker are switched OFF and cannot be reactivated.



Note: Please ensure that the connector has been correctly installed!

3.3 DC Wire Assembly and Connection

Meeting the following requirements is mandatory. All warranty rights will otherwise be invalid.

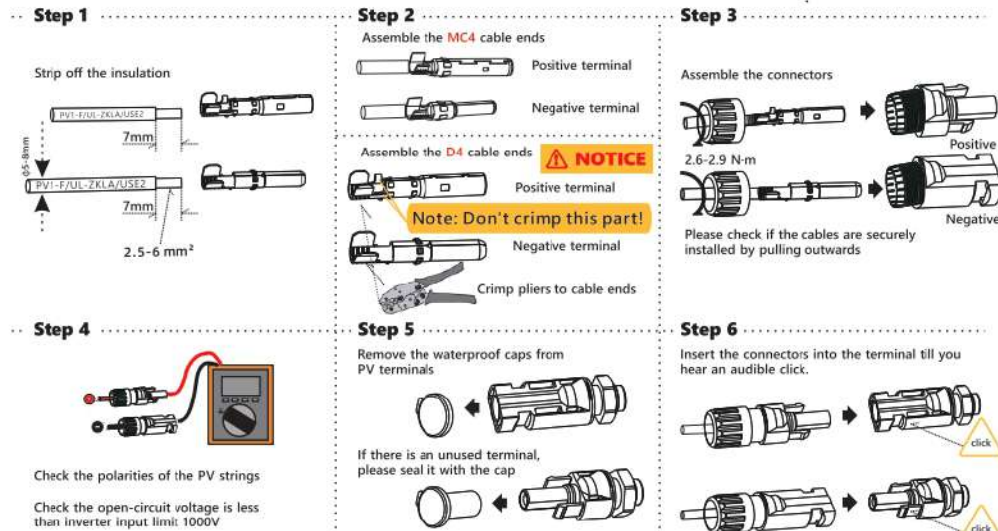
3.3.1 Maximum open circuit voltage of each string is less than 1000V¹⁾.

3.3.2 Maximum short circuit current of each PV input is less than inverter allowable limit.

3.3.3 The string is well insulated to ground in all cases.

3.3.4 Make sure that the DC connectors have the correct polarity.

3.3.5 If the PV connectors are not assembled properly and locked into place, arc or overheat may be induced.

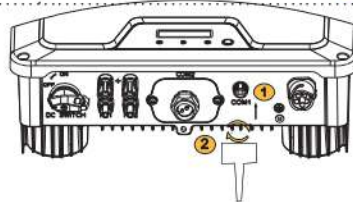


3.4 Wi-Fi/GPRS Connection (Optional)

The stick is included in the scope of delivery as an option.

3.4.1 Tighten the stick into the COM1 port. Make sure the stick is securely connected.

3.4.2 For the connection and configuration of the Wi-Fi stick please refer to <Wi-Fi stick User manual>.



3.5 RS485/Smart Meter/DRED Connection

Step 1



Unscrew with T25 screwdriver and remove the COM sealing plate. The terminals of DRED/Meter/RS485 is exposed as indicated

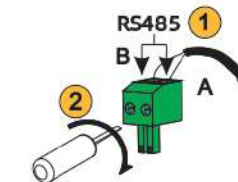
Step 2



Unscrew the nut of cable gland and take out the rubber cylinders. Please seal the cable gland properly if there is an unused hole to prevent moisture and dust

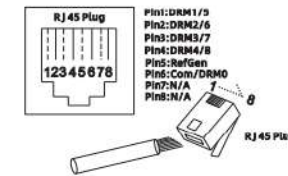
Step 3

RS485/METER connection



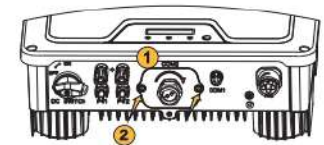
screwdriver type: Blade 0.4 x 2.5

DRED connection



Connect the crimped cables to RS485 / Meter terminals/DRED and secure by (blade 0.4x2.5) screwdriver

Step 4



Tighten the nut to prevent the cable from wobbling, put on the COM2 sealing plate and firmly tighten the screws.
(Screwdriver type: T25; Torque: 2.5 Nm)

4. Commissioning

Please check if

1. The inverter and mounting bracket have been correctly installed. 2. The inverter's exposed metal surface has a ground connection. 3. The resistance between PV arrays and ground is greater than 1Mohm. 4. For any unused DC terminals, there are DC connectors inserted to the terminal and sealed with waterproof caps. 5. The grid voltage at the point of connection of the inverter is within the permitted range. 6. The AC circuit breaker must be correctly rated and wired. 7. The cable communication connectors have been correctly wired and tightened.

Startup

Switch on the DC switch after finishing the above checks, then switch on the AC circuit breaker. When there is sufficient DC power applied and the grid conditions are met, the inverter will start to operate automatically.

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For more information, please download the user manual and other technical documents at www.ksolare.com



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