



SOLAX Adapter Box Installation Guide

[Home](#) » [SOLAX](#) » SOLAX Adapter Box Installation Guide 



Quick Installation Guide SolaX Adapter Box

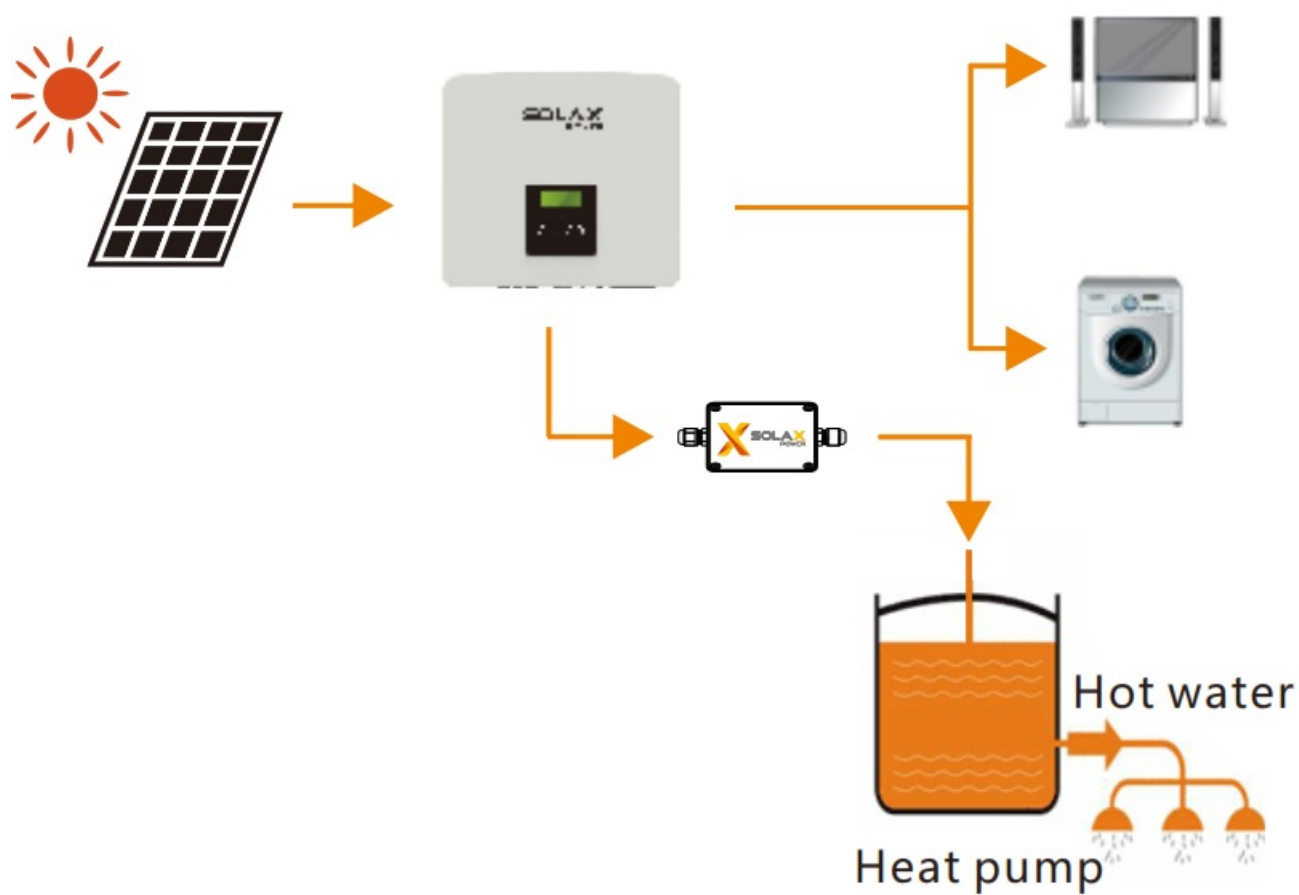
Contents

- [1 Introduction](#)
- [2 Overview](#)
- [3 Packing List](#)
- [4 Mounting](#)
- [5 Wiring](#)
- [6 Setting](#)
- [7 Documents / Resources](#)
- [8 Related Posts](#)

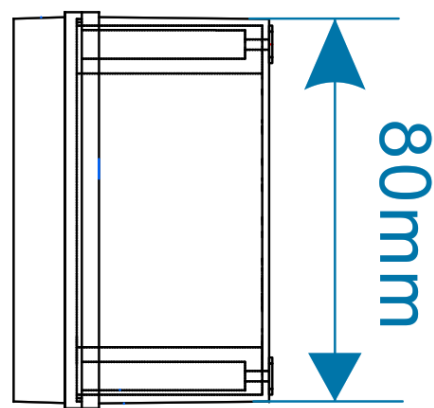
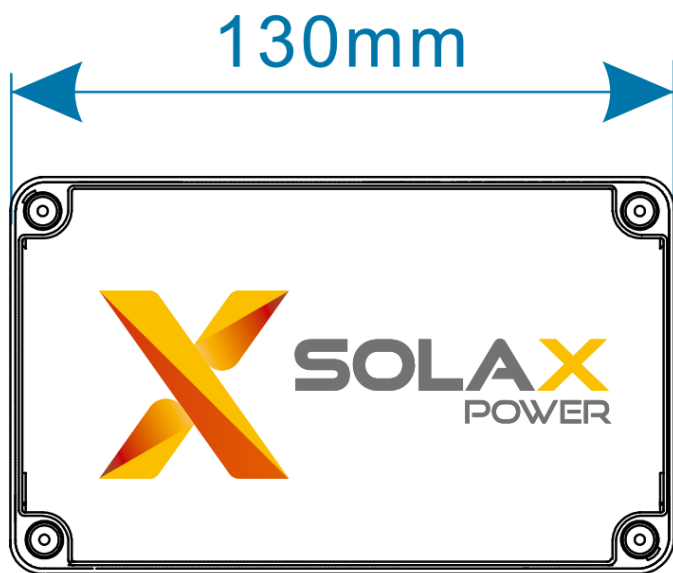
Introduction

SolaX Adapter box is matched with a heat pump with a dry contact function, which can realize heat pump integrated photovoltaic inverter energy system management. The inverter can control the Adapter box to use solar energy efficiently according to the requirements set by the user (grid power, battery capacity, time, etc.) Supplying heat pumps is generally applicable when there is surplus solar energy and battery storage capacity. This part of the energy can be used to heat the heat pump within the required temperature

range. Please read this guide carefully before using it.

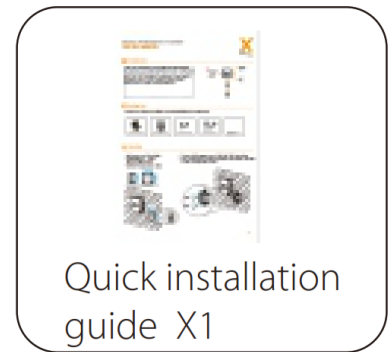
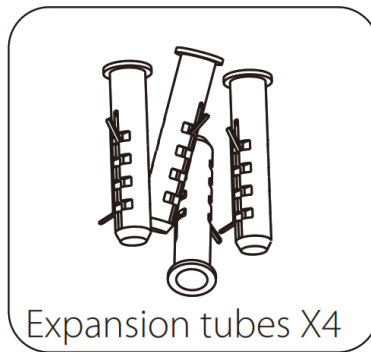


Overview



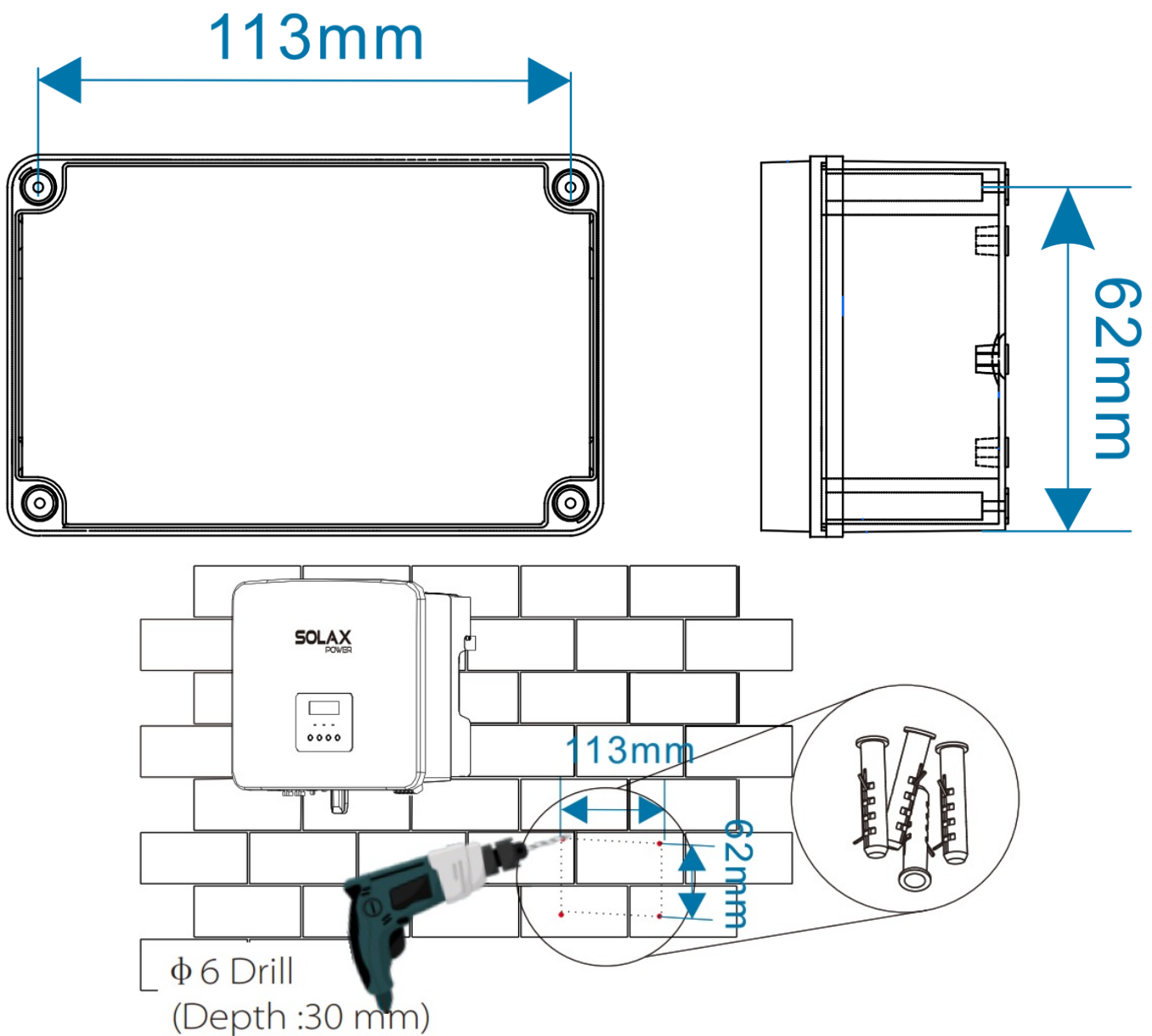
Packing List

- Check if there is any distortion or impairment during transportation.



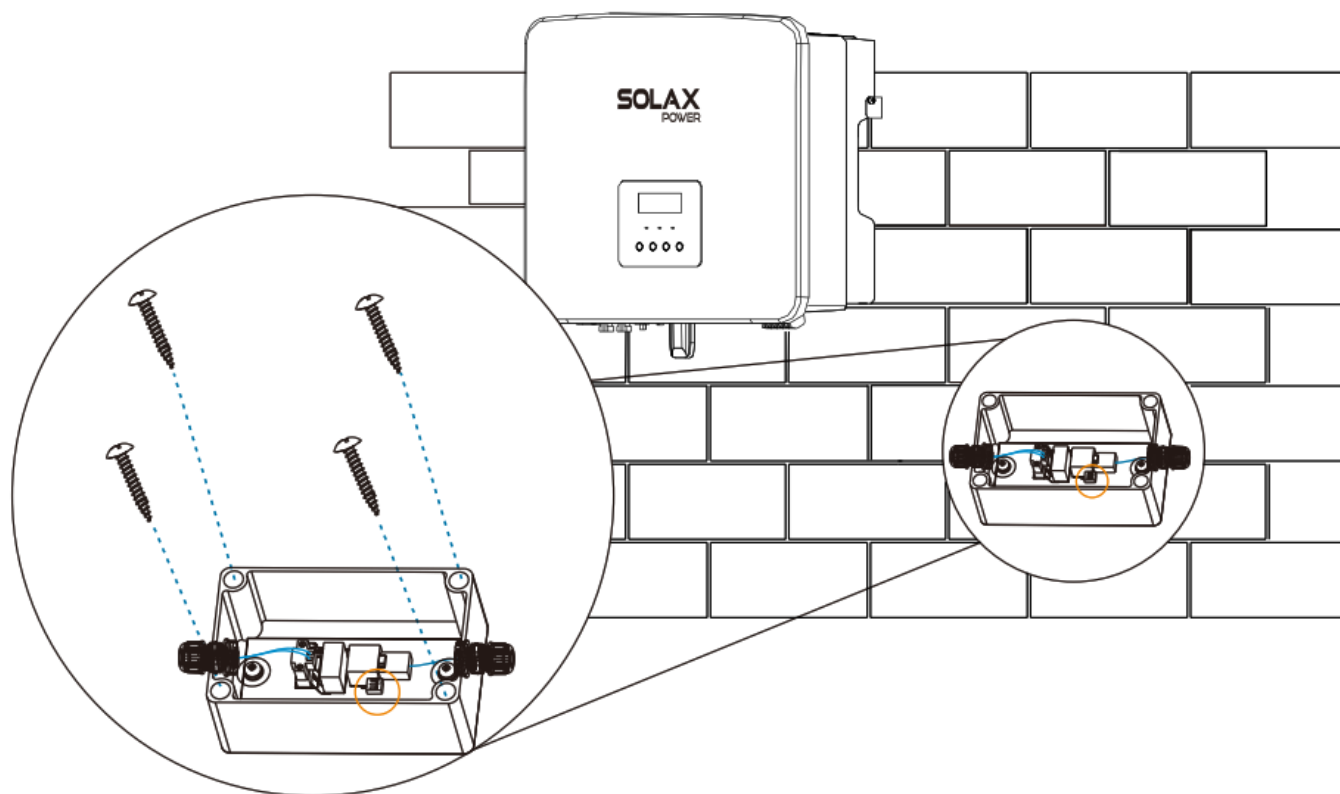
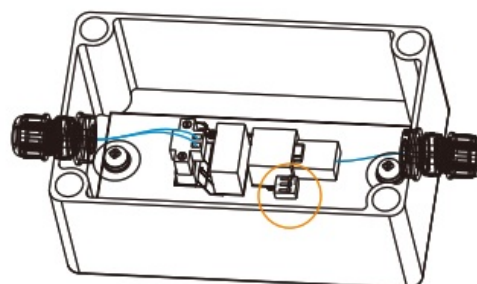
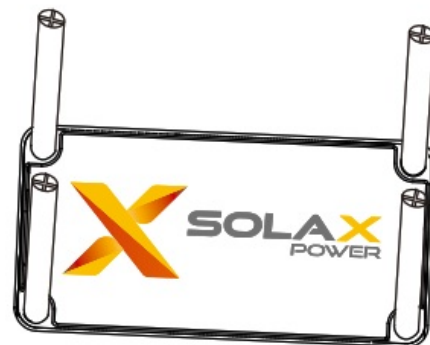
Mounting

- Drill holes with $\phi 6$ a drill.
- Depth: at least 30mm.
- Tighten the expansion tubes.



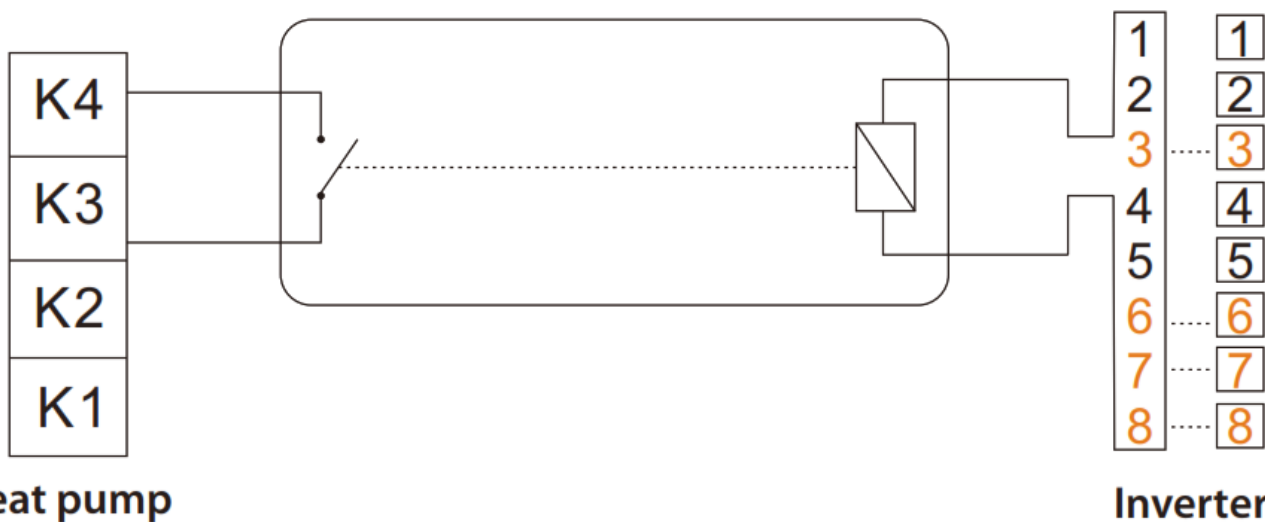
- Dismantle the upper cover of the SolaX Adapter Box.
- Pass the expansion screws through box installation channels.
- Screw the expansion screws.

Slotted screwdriver
torque: $1.5 \pm 0.1 \text{ N}\cdot\text{m}$

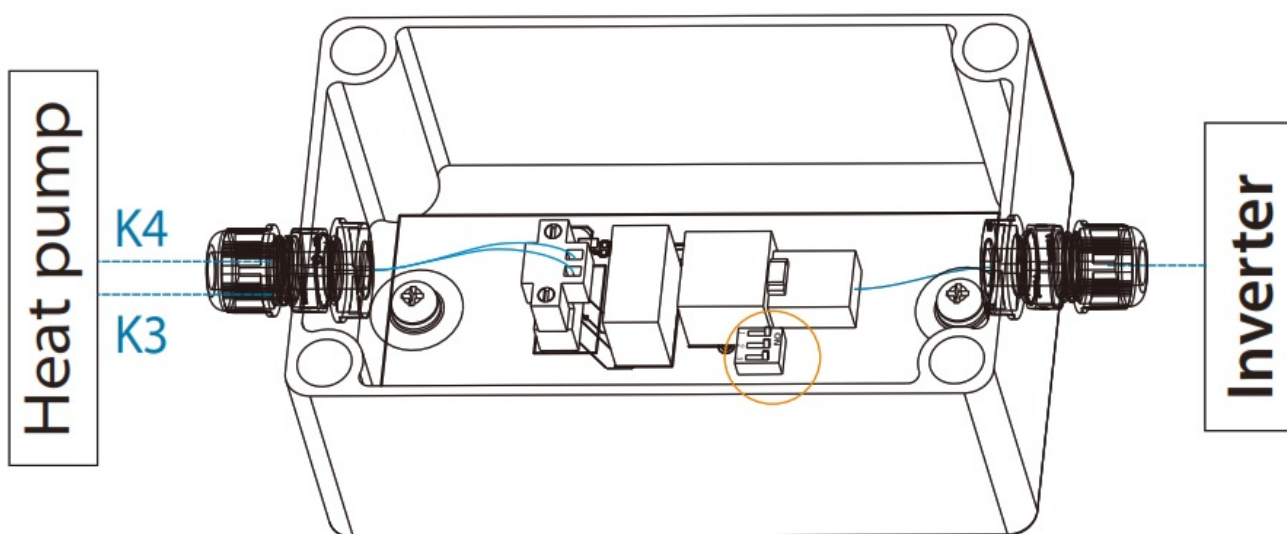


Wiring

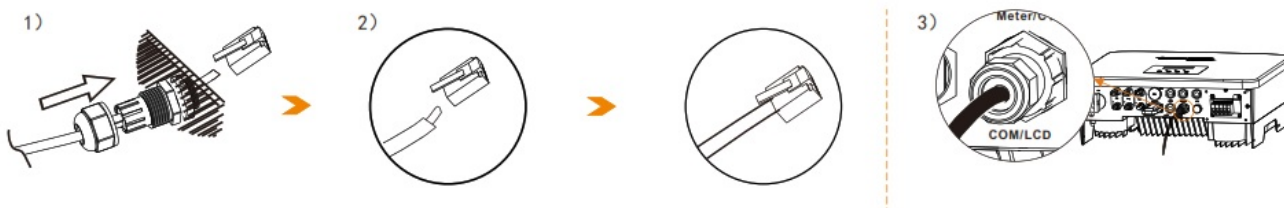
Pictorial wiring diagram:



Note: Adapter Box is generally suitable for heat pumps with dry contact function. K3/K4 needs to be connected to the dry contact on the heat pump to control it.



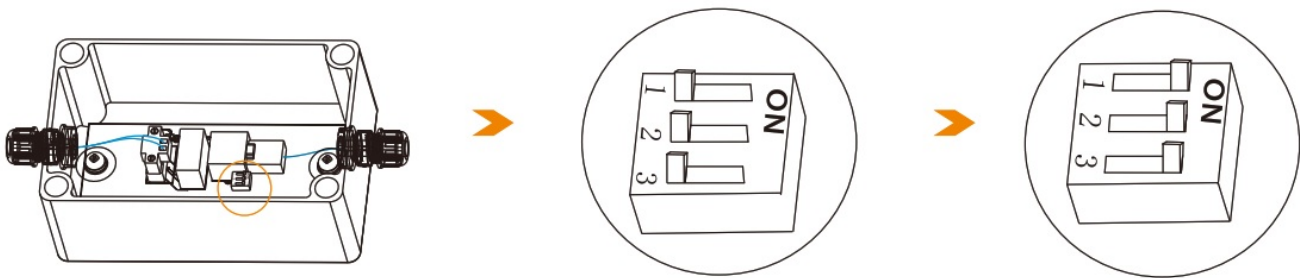
1. Insert the cables through the glands.
2. Make cables, insert it into the RJ45 connector in the box and tighten the waterproof terminal. (Conventional Communication cable)
3. Insert the inverter port and tighten the waterproof terminal.



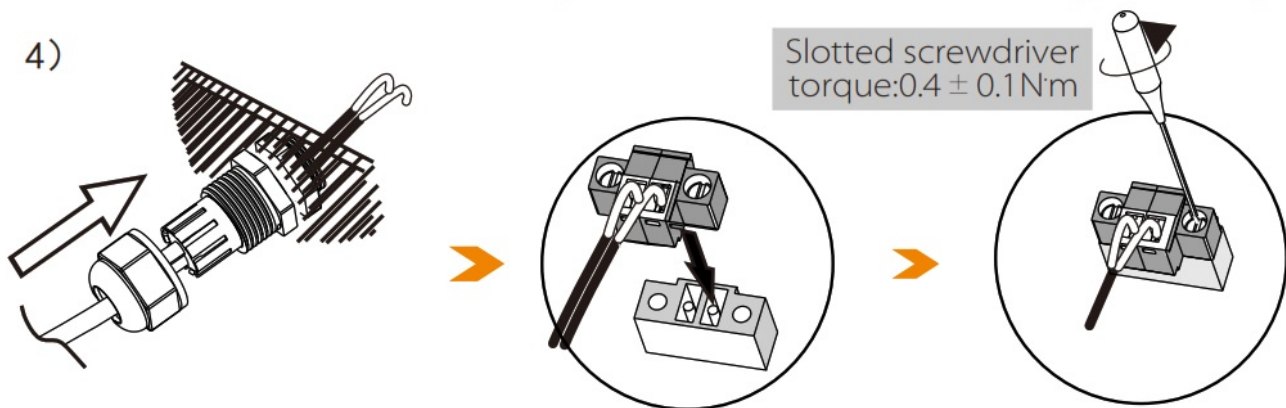
COM/RS485 PIN Definition

	1	2	3	4	5	6	7	8
	X	X	+13V	X	X	GN	Drycontact_A (out)	Drycontact_B(o ut)

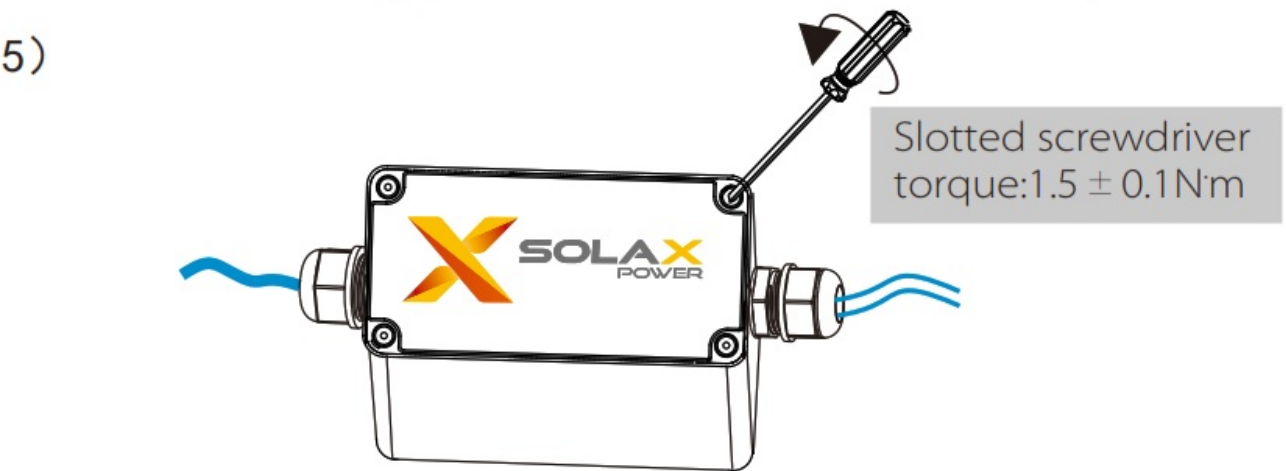
Note: Inverter terminal communication wiring pins, SolaX's X1-Hybrid G4 /X3-Hybrid G4 series use pins 3, 6, 7 and 8, and the switch defaults to “123”; Specially SolaX grid-connected inverters use pins 3 and 6. Turn these three switches to “ON”. If necessary, please contact our SolaX team.



4. Connect the cables to the perforation terminals' respectively



5. Assemble the upper cover of the SolaX Adapter Box.



Setting

– All Smart Grid Ready heat pumps have four controllable operating modes. SolaX recommends switching between operating modes 2 and 3. The switching is realized by an external relay, which is controlled by the SolaX inverter.

Operating mode

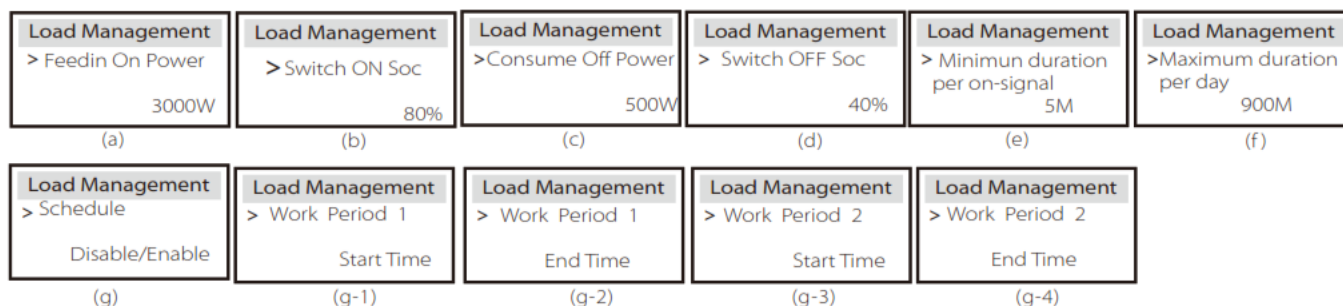
Operating mode 2—standard operation	Relay open contact
Operating mode 3— increasing temperature mode	Relay closed contact

– To use the heat pump function, users need to set the inverter LCD screen, press the following menu to enter: “Load Management”, select “Smart save” to set.



Smart save settings:

- (a) When the inverter feed-in power is greater than or equal to the setting value, the dry contacts in the adapter box are closed.
- (b) When the battery has reached the setting capacity, the dry contacts are closed.
- (c) When the power consumed by the load is greater than or equal to the setting value, the dry contacts are open.
- (d) When the battery capacity falls below the set value, the dry contacts are open.
- (e) The minimum duration for the dry contacts to maintain the closed state, during this time (c)/(d) will not be triggered until the end.
- (f) The maximum duration for the dry contacts to maintain the closed state in 24 hours. (a)/(b) will not be triggered after this period of time one day.
- (g) Dry contacts are closed under the two work periods set by users while the schedule is enabled. This logic is higher than the (c)/(d) and lower than the (f).
- (g-1)/(g-2)/(g-3)/(g-4) You can set the power-on time and shutdown time of the heat pump. Two time periods can be set.



Documents / Resources

[SOLAX Adapter Box](#) [pdf] Installation Guide
Adapter Box