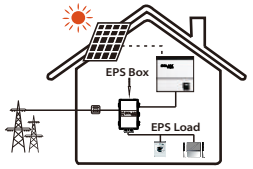
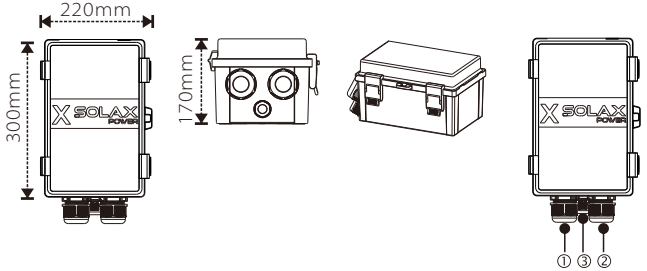
Quick Installation Guide
Three-Phase EPS Box

1. Introduction

Three-phase EPS Box integrates two contactors which provide power steering for users. It is compatible with Three-phase EPS change-over application. Configured with Three-phase EPS Box, customers need to connect 13 wires to complete the steering circuit. It can simplify the operation and improve security.



2. Overview

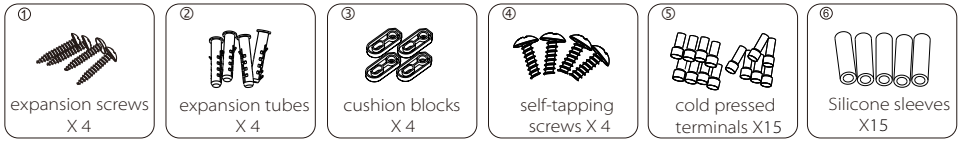


Object	Description
1	EPS
2	Grid
3	Load

3. Preparation

3.1 Packing List Checking

Before installation, make sure that nothing inside the package is damaged.
The following items should be inside the package.



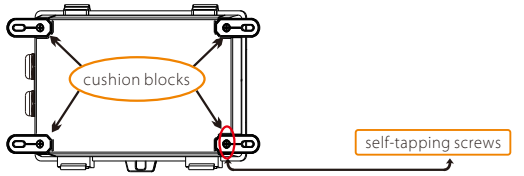
3.2 Tools

Before you start, get the following tools ready.

4. Mounting

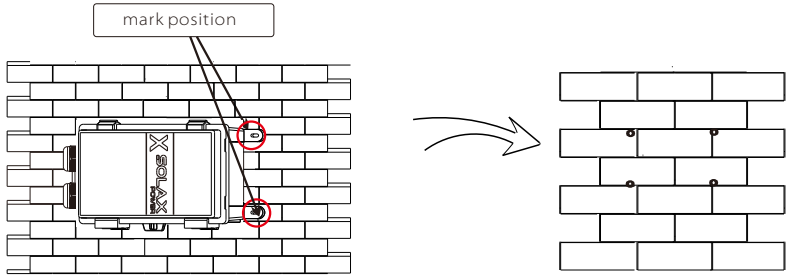
Step 1:

Make sure the installation site does not expose to direct sunlight. Then install the four cushion blocks on Three-phase EPS Box with self-tapping screws.



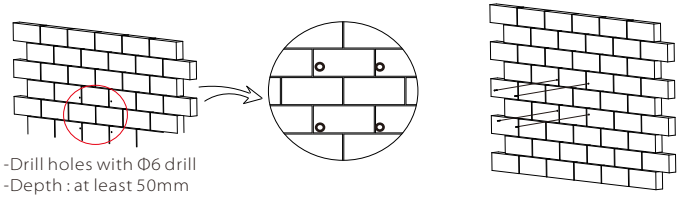
Step 2:

Use Three-phase EPS Box with cushion blocks as a template to mark the four holes' position on the wall with marker pen.



Step 3:

Drill holes with Φ6 driller carefully, make sure the holes are deep enough for installing. Install the expansion tubes through cushion blocks into the holes and tighten them.

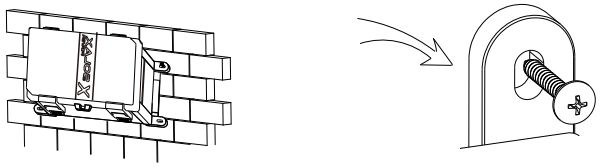


-Drill holes with Φ6 drill
-Depth : at least 50mm

-Tighten the expansion tubes

Step 4:

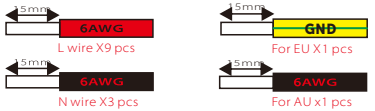
Install the expansion screws with screwdriver to fix the Three-phase EPS Box.



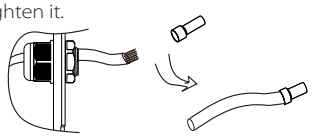
5. Wiring Connection

5.1 Wires making

① Prepare wires as below. Use the diagonal plier to trip 15mm of insulation from side of the wire.



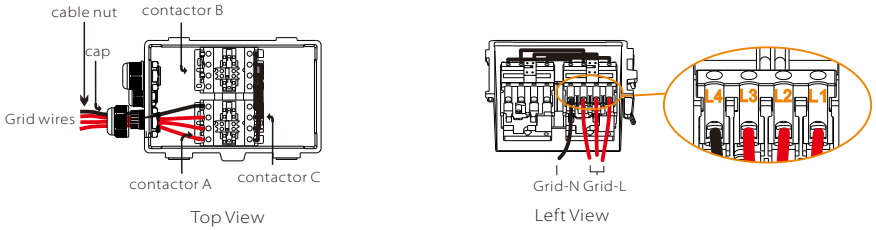
② Insert wire into cable gland, then insert the end of wire into cold pressed terminal and tighten it.



If AWG-10 wires are used, please pass the wires through the silicone sleeves to aviod leakage at the insertions.

5.2 Grid-Wires Connection

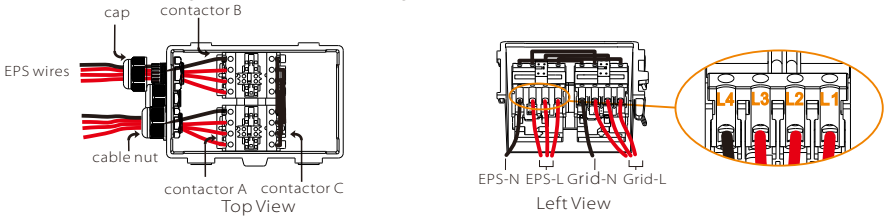
Use the manual wrench to screw off the cap on cable nut, then insert Grid-L wires and Grid-N wires into the ports (L1,L2,L3,L4) of contactor A through the cable nut and tighten them with screwdriver.



Please prevent other wires from getting loose during operation.

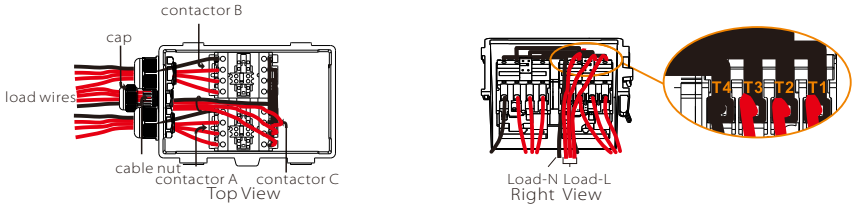
5.3 EPS-Wires Connection

Screw off the cap on cable nut, then insert EPS-L wires and EPS-N wires into ports (L1,L2,L3,L4) of contactor B through the cable nut and tighten them with screwdriver.



5.4 Load-Wires Connection

Screw off the cap on cable nut, then insert Load-L wires and Load-N wires into ports (T1, T2, T3, T4) of contactor C through the cable nut and tighten them with screwdriver.

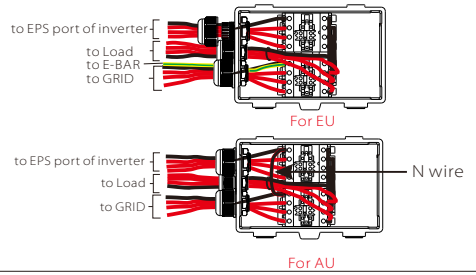


5.5 Earth-Wire Connection

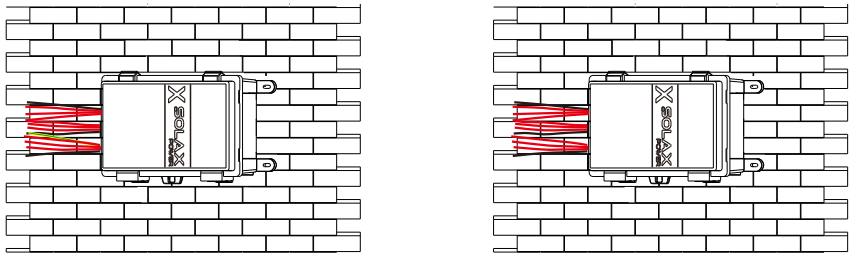
In EU, insert GND wire into port of contactor (B: L4) through the cable nut and tighten it with screwdriver.
In AU, insert N wire into ports of contactor(A: L4&B: L4) .

5.6 Checking

Please make sure all wires are tightened. Wire connection in Three-phase EPS-Box.



Overview of Three-phase EPS Box



6. Technical Parameters

Grid	
Max.AC input current (A)	3x63
Rated AC voltage (V)	3/N/PE~400/230
Rated AC frequency (Hz)	50 / 60
EPS	
Max.EPS input current (A)	3x63
Rated EPS voltage (V)	3/N/PE~400/230
Rated EPS frequency (Hz)	50 / 60

Load	
Rated output current(A), on grid mode	3x63*
Rated output current(A), EPS mode	3x63*
Rated Grid Voltage(V)	3/N/PE~400/230
Rated Grid Frequency(Hz)	50/60
Genaral Data	
Operating Temperature range (℃)	-20~+60
Dimension (mm)	300x220x170
Weight (kg)	4.85

*** : The output current will be reduced when the operating temperature exceeds 40℃. At 50℃, the output current drops to 95% . At 60℃, it drops to 80%.**