

# DC Isolator Installation Manual

The ZJBENY DC Isolator is suitable for vertical or horizontal installation, can be reach to IP66NW. Installing can be carried out after the item and its mounting mechanism have been checked and confirmed intact.

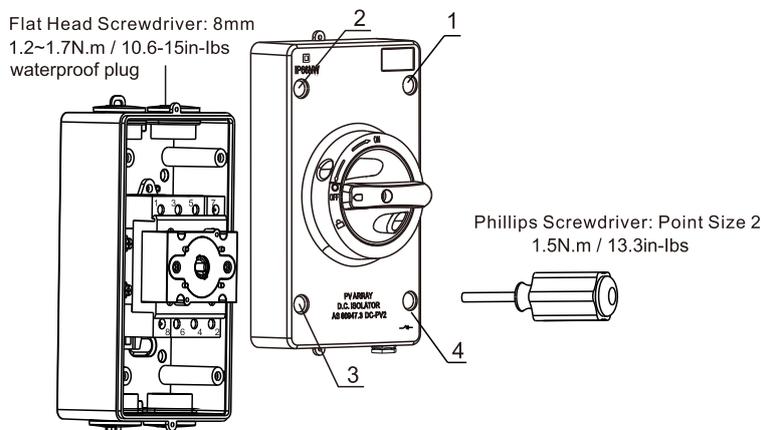
## 1. Check before installation

- Make sure the item and the accessories are complete. Accessories include: 4pcs sealing plugs, 2pcs bridging links, 2pcs installation gasket, 4pcs screws;
- The production appearance free of deformation, fracture and other injuries;
- Make sure the rotary handle is flexible and slippage do not occurre.



## 2. Installation and Adjustment

- Use No.2 Philip screwdriver to open the top cover ::1, 3, 2, 4:: IN THAT ORDER

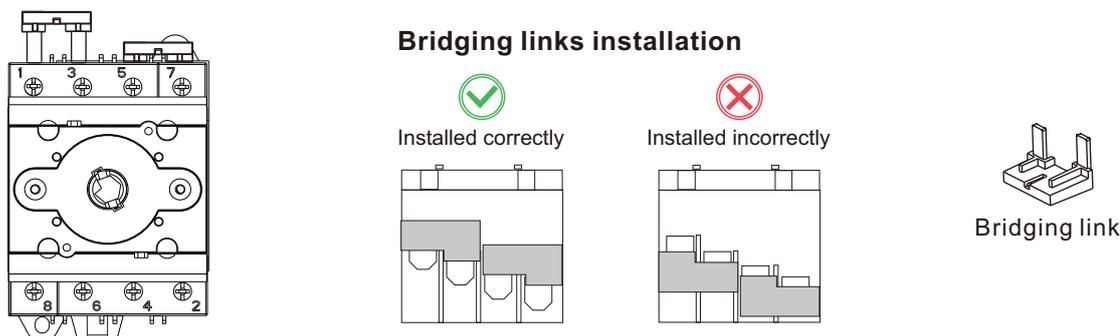


- Choose the proper wiring method according the voltage and current you need, please refer to the catalogue or label for the detailed figure of voltage and current.

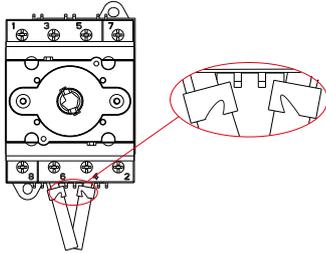
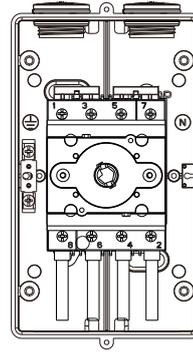
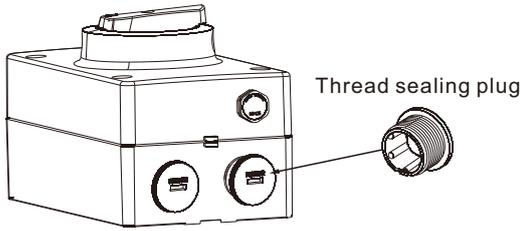
Type	4-pole	2-pole 4 Paralleled Poles	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
/	4	2H	4B	4S
Contacts Wiring graph				
Switching example				

- Practical wiring steps, take above 4B wiring method for example.

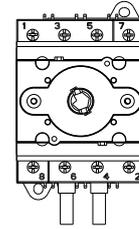
- As below shown, take 2pcs bridging links from the accessories, insert to terminal "1, 3" & terminal "5, 7" on the switch body respectively, then tighten the screws, the tighten torque is 1.2 ~ 1.8 N.m



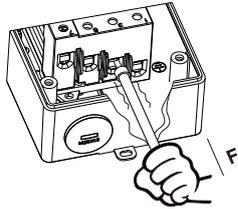
- As below shown, please remove the thread sealing plug at the bottom of isolator, and insert the cable into terminal "2, 4, 6, 8" respectively and tighten the screw, the tightening torque is 1.2 ~ 1.8 N.m



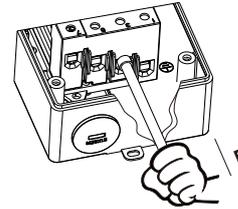
Broken insulation sleeve



No bare copper wire exposed under insulation sleeve



Loose wire connection



Pull the cable after wire connection to ensure the cable wiring is tight



Warning

You must ensure all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightened to the manufacturers required torque before energization.

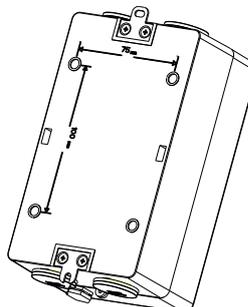
#### d. Installation

- Suitable for indoor installation**

Allow drilling the hole at the back of isolator, then fixed it on the wall. Please ensure will be no any water on the wall and isolator is installed to maintain the IP66NW rating even for indoor installation.

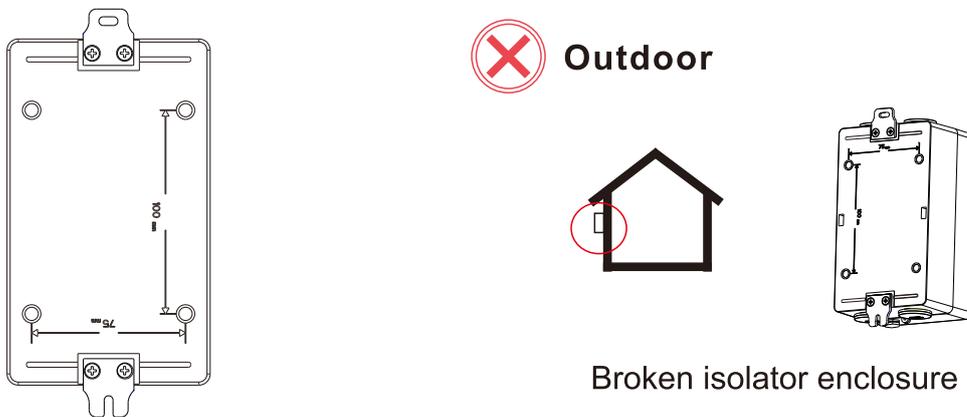
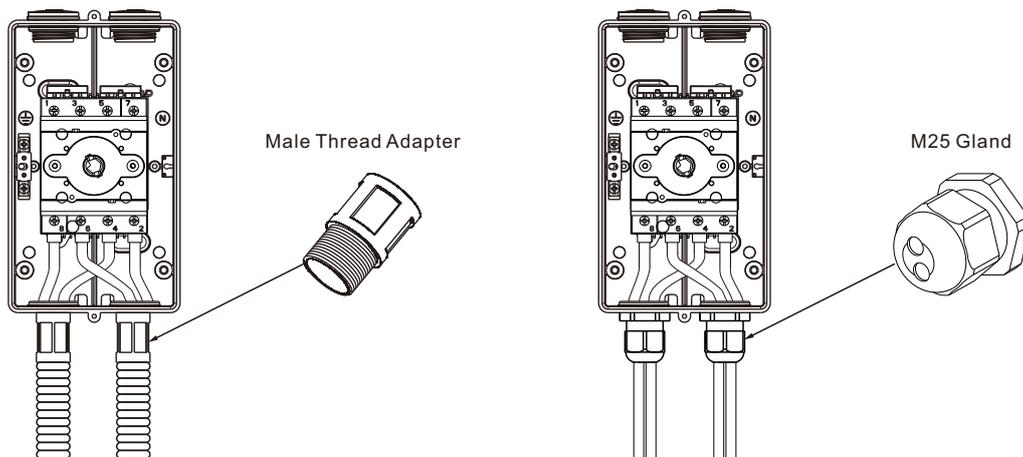


**Indoor**



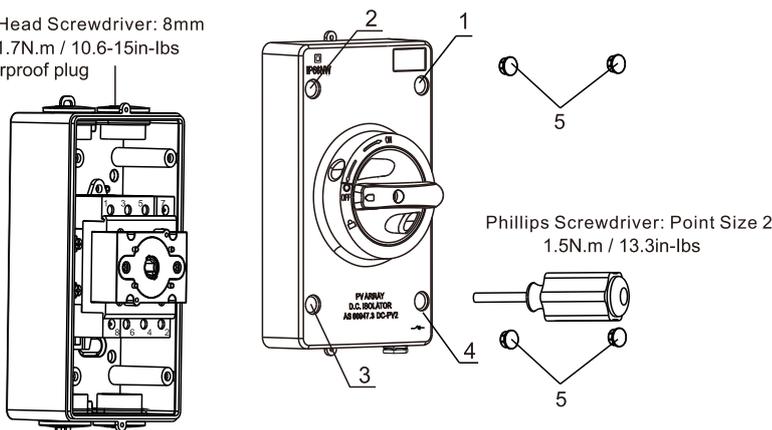
● **Suitable for outdoor installation**

Below installation is recommended to help avoid water ingress, and use upper & bottom gasket to fix the isolator, the cables come out from the bottom of isolator, do not allow to broken isolator enclosure.

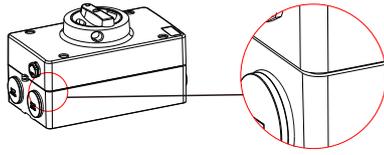


- Be sure number(1,3,5,7) on switch body and “IP66NW” on cover are not inverted.
- Rotate Handel to the “OFF” position and locate shaft into switch body.
- First step: tighten screw with 1.2N.m in order of 1,3,2,4  
Second step: tighten screw with 1.5N.m in order of 1,3,2,4
- Tighten each waterproof plug
- Make sure that number(5) is assembled on the cover.

Flat Head Screwdriver: 8mm  
1.2~1.7N.m / 10.6-15in-lbs  
waterproof plug

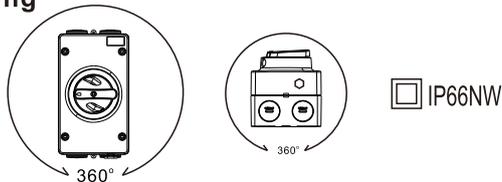


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**✓ Inspect**

After screw tighten the isolator cover, please inspect the gap between top cover and bottom base, ensure it is the same level for 4 sides of isolator, maintain the IP66NW rating.

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**✓ IP Rating**

ZJBENY DC Isolator can be installed in any direction, but must be installed correctly to maintain the IP66NW rating.

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**The possible problems during the installation:****1) Poor waterproof performance**

The sealing plug did not put in the holes, the sealing plug did not tighten

**2) Poor installation of dc cabling**

Loose terminals, DC plugs not plug-together correctly, mismatched DC plugs, damaged insulation, incorrect cable sizing

**3) Poor installation of mc4**

The cap of mc4 did not tighten, lead to the rubber of mc4 can not waterproof

Different brand of mc4 insert together, lead to the rising temperature

**4) Damage to the DC cabling**

Damage caused by rodents, possums, birds, insect etc

**5) Aged DC cabling**

A fault can occur simply due to aging of the DC cabling

As DC connections age they corrode and the impedance increases generating a hot spot where an arc fault can occur

**6) Aged sealing**

Waterproof sealing, conduits and DC plugs deteriorate over time and allow water ingress causing an arc fault

**The suggestion during the installation:**

1) Put 4pcs sealing plugs in the hole, to protect the screws;

2) Tighten the screw of terminal, to avoid the high temperature rising;

3) Tighten every plug, make sure the good performance for waterproof;

4) Tighten the mc4, to avoid the water enter into isolator;

5) Every cable enter through the bottom of DC isolator;

6) Use 2pcs gasket to fixed the isolator.