

Function Introduction

Lonqi New Energy Technology has developed LONQ-40 DC series new energy disconnect switches through years of dedicated research on the operation of new energy systems at home and abroad and the needs of customers.

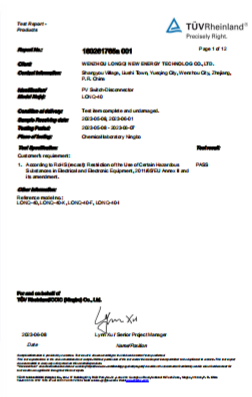
Product Features

- Quickly isolate circuits to ensure the safety of electricity consumption.
- Maximum rated voltage DC 1500V, maximum current 32A.
- Waterproof to IP66 for outdoor use.
- PV connectors are plug-and-play, with mounting holes reserved at the top and bottom of the housing, no need to destroy the housing by drilling, fast installation.

Model Name Meaning



Certification



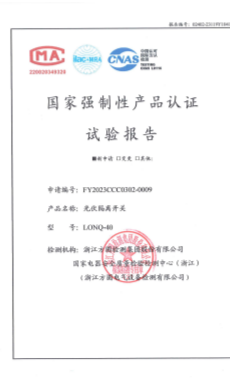
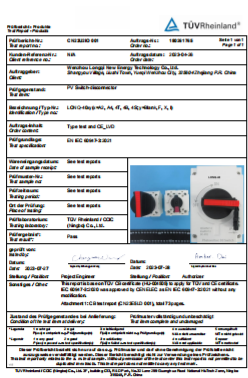
EU IPO

TUV

CB

UKCA

ROHS



CE

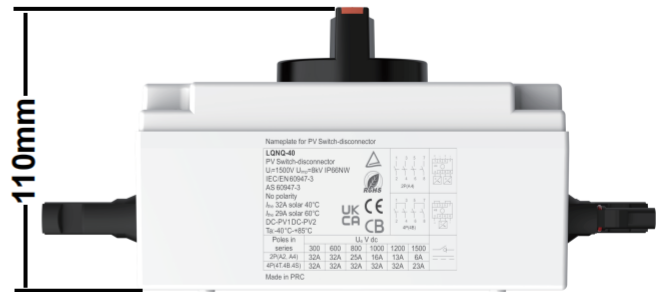
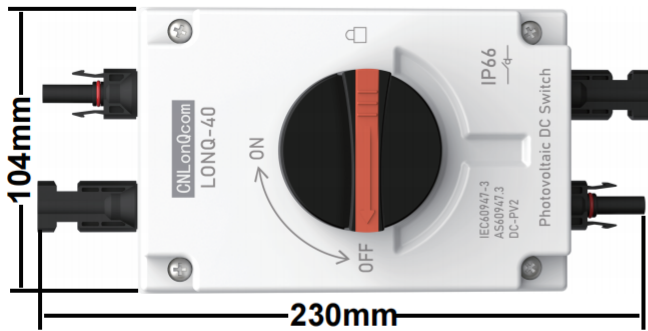
AZ

CCC

GTS

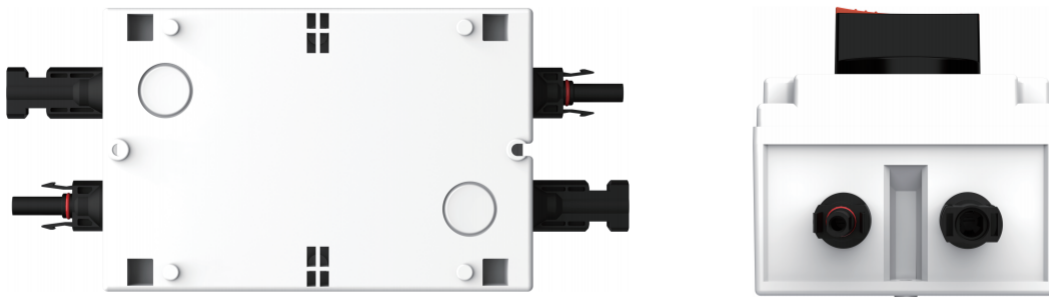
Patent

Main Technical Parameter



Technical Data						
<b>Model</b>	LONQ-40-1PV					
<b>Type</b>	PV DC Disconnect Isolator Switch					
<b>String</b>	1 input 1output					
<b>Rated Current In(A)</b>	32	32	32	32	32	23
<b>Rated Working Voltage Ue (V)</b>	300	600	800	1000	1200	1500
<b>Rated Insulation Voltage Ui (V)</b>	1500V					
<b>Pole</b>	4					
<b>Rated Impulse Withstand Voltage Uimp (kV)</b>	8					
<b>Short-Time Withstand Current Icw (kA)</b>	1					
<b>Wiring Mode</b>	No polarity, top in and bottom out or bottom in and top out					
<b>Standard</b>	IEC/EN60947-3 GB/T 14048.3					
<b>Insolation Feature</b>	Yes					
<b>Levels of Protection</b>	IP66					
<b>Housing Material</b>	PC					
<b>Conductor Material</b>	Copper					
<b>Quality Certificate</b>	TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS					
<b>Mechanical Life (times)</b>	20000					
<b>Electrical Life (times)</b>	6000					
<b>Knob Positions</b>	OFF at 9 hr , ON at 12 hr					
<b>Operating Temperature</b>	-40°C to +85°C					
<b>Humidity</b>	95%					
<b>Altitude</b>	2000m					
<b>Installation</b>	Wall Mounting					

Size and Weight



Size and Weight	
<b>Product Size (mm)</b>	L230*W104*H110
<b>Product Weight (kg)</b>	0.709
<b>Individual package size (mm)</b>	L260*W110*H120
<b>Individual package Weight (kg)</b>	0.75
<b>Packaging Details</b>	1Pcs per inner box, 20Pcs per carton
<b>Outer box size(cm)</b>	L56.5*W27.5*H49.5
<b>Outer box Weight(kg)</b>	15.5

Product Details

①PV Connector

Optional 1000V/1500V,30A/45A/60A,IP67

② 4mm<sup>2</sup> PV1-F PV Wire

Maximum load voltage 1800V Current 55A

③Thick Copper Conductor

Low resistance and low heat generation

④Silver Plated Contacts

Anti-oxidation

⑤Corrosion Resistant Screws

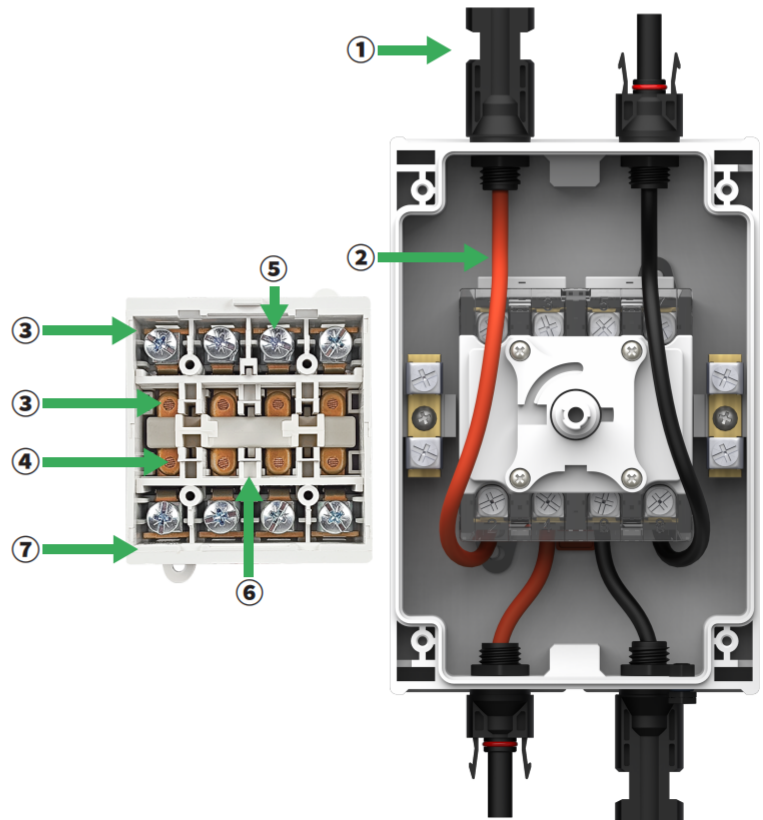
Salt Spray Tested

⑥Magnet

Fast arc extinguishing

⑦PA Housing

UL94V-0 flame retardant grade



## Contact Wiring Diagram

Contact Wiring Diagram			
Connect Method Code	Circuit Type	Wiring Diagram	Load Diagram
<b>2P(A2)</b>	2 poles in series for one string, 1 load		
<b>2P(A4)</b>	2 poles in series for one string, total 2 loads		
<b>4P(4T)</b>	4 poles in series, for one string		
<b>4P(4B)</b>	4 poles in series, for one string		
<b>4P(4S)</b>	4 poles in series, for one string		

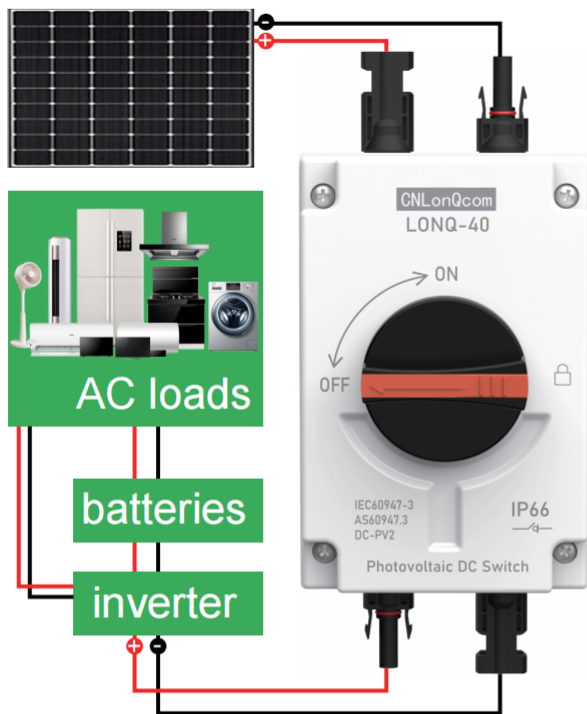
**Tip:**

- ① Please disconnect the power supply when installing the wiring, it is better to ask professional electricians to install.
- ② Installation in cramped, humid or hot environments should be avoided as much as possible
- ③ The wiring of the disconnect switch must be correct and reliable to prevent poor contact, short circuit and other phenomena in. In the wiring process, the appropriate wire diameter and wiring method should be used to ensure that the wiring is firm and reliable. Also pay attention to the color and marking of the wiring, so as to facilitate future maintenance and overhaul.

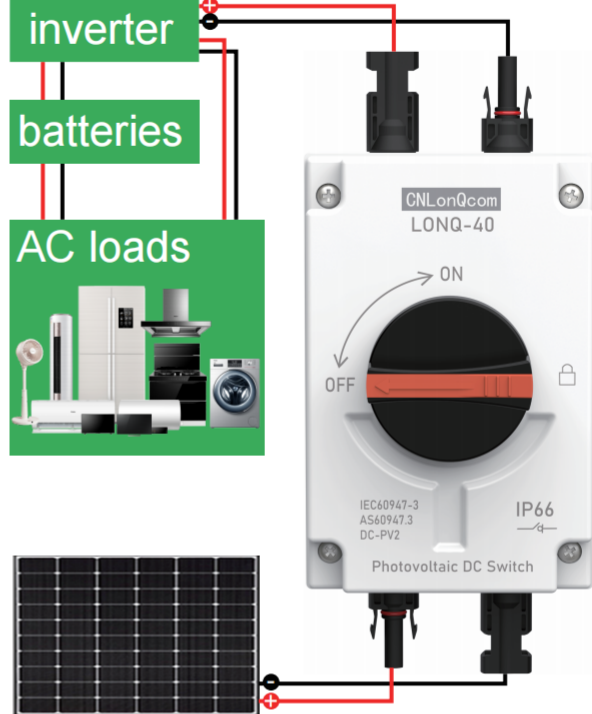
Wiring Method

No Polarity

top in and bottom out

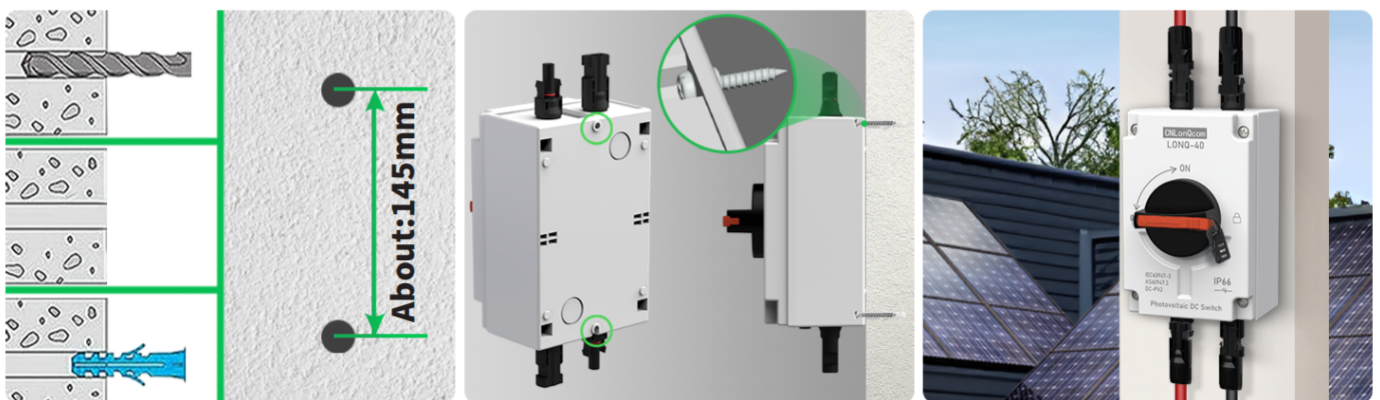


bottom in and top out



Wall Mount

**Tip:** Wiring first or mounting on the wall first can be chosen according to individual needs.



① Perforation

Use a drill bit to cut holes in the wall at appropriate locations and insert expansion tubes.

② Mounting

Screw into the pre-drilled holes at the top and bottom of the box.

③ Connect Wire

Linking of the cables with PV connectors, completion of the PV protection system installation.

**Supplied with Accessories**

**① Expansion Tube\*4**

Put into the wall holes to make the screws more secure when they go in

**② Mounting Screw\*4**

Corrosion-resistant, passes 48-hour salt spray test, Phillips screwdriver recommended for mounting

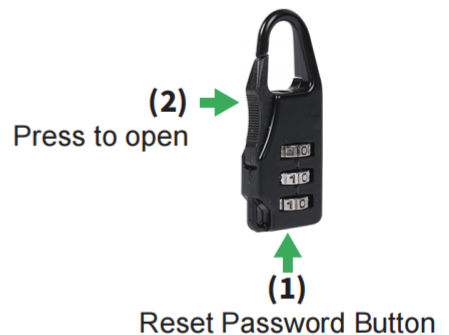


**③ Combination Lock**

This lock is set to open at '000' during production. You can customise the reset to a new combination.

To reset your password:

1. Rotate the passcode to the correct position, then press and hold the bottom round button (1).
2. Turn the passcode to change it to the desired password and finally release the button (1).



**Lock Installation**



**① Push Handle**

Push the red part above the handle to the right to expose the hole.

**② Mounting**

Snap the combination lock into the hole

**③ Rotary Code Dial**

Installation complete. Mess up the password.

**More Accessories**



PV Connector

2 to 1 Connector

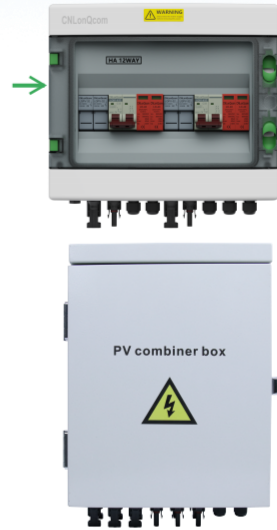
Fuse Connector

Diodle Connector

PV Extension Cable

Complete Solutions for The Protection of PV Systems

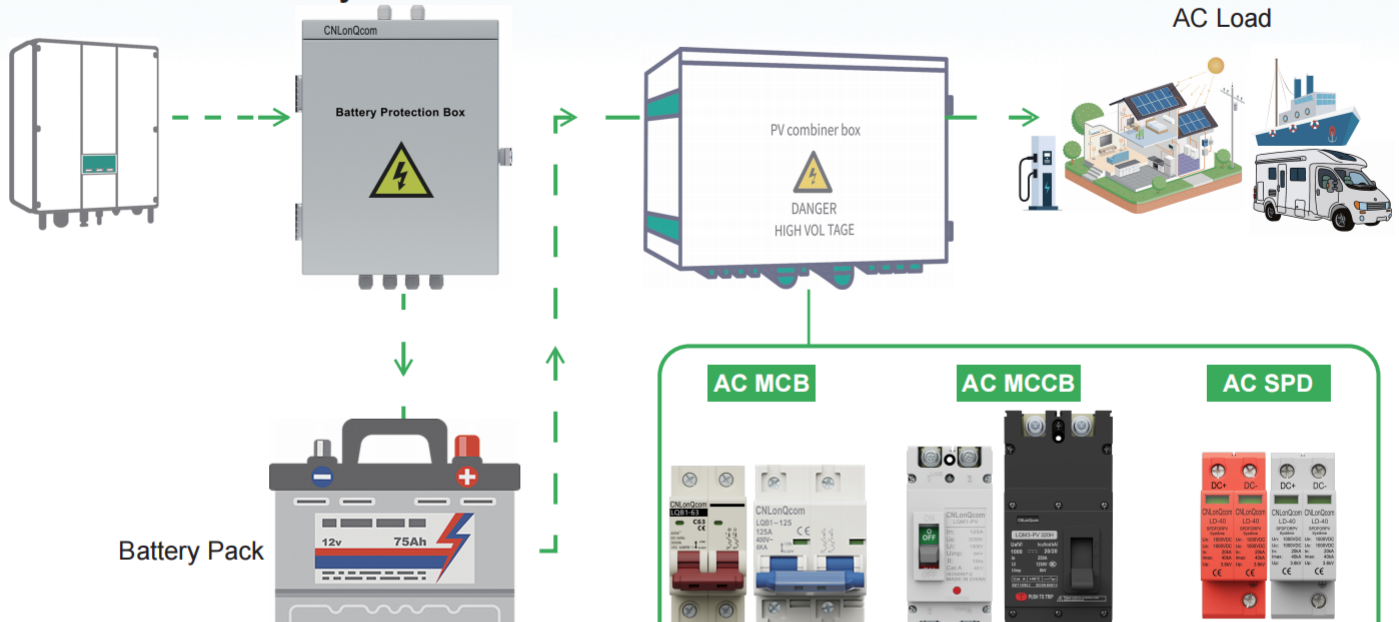
① PV Connector Series    ② PV Disconnect Switch    ③ PV Combiner Box



Complete solutions for the protection of AC systems

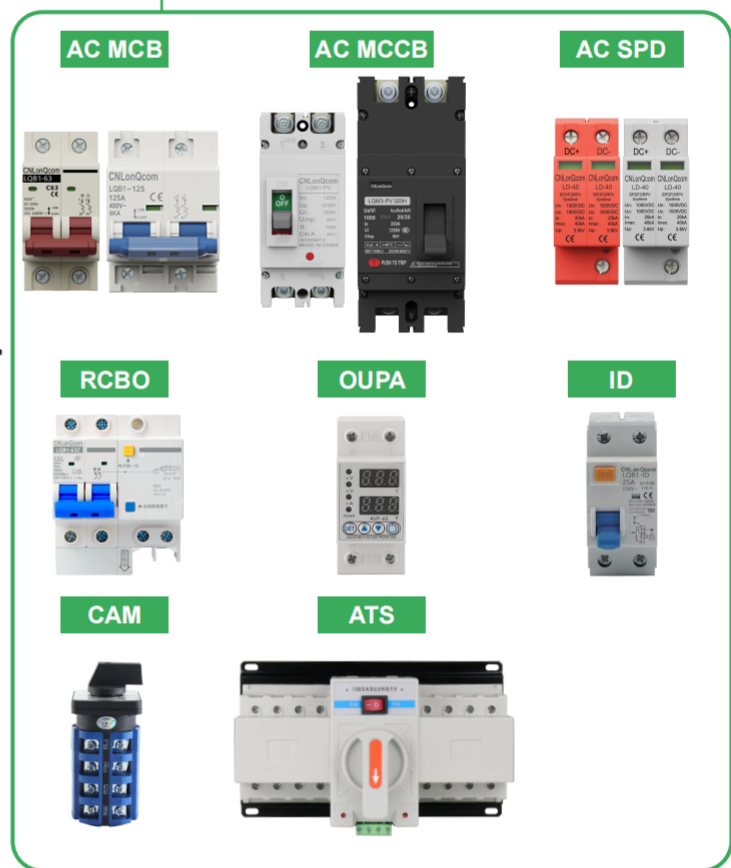
④ Battery Protection Box

⑤ AC Combiner Box



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**For more DC and AC circuit protection products please contact us!**



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