

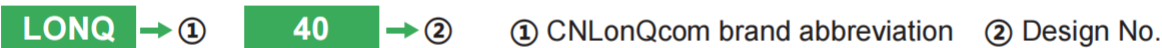
Function Introduction

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.

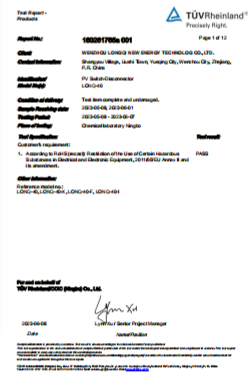
Product Features

- Quickly isolate circuits to ensure the safety of electricity consumption.
- Maximum rated voltage DC 1500V, maximum current 32A.
- Waterproof to IP66 for outdoor use.
- Holes can be pre-punched on the top and bottom or on the left and right side upon request. For mounting MC-4 or PG waterproof connectors.
- Mounting holes are reserved at the top and bottom of the housing, eliminating the need to drill holes to damage the housing and making installation quick.

Model Name Meaning



Certification



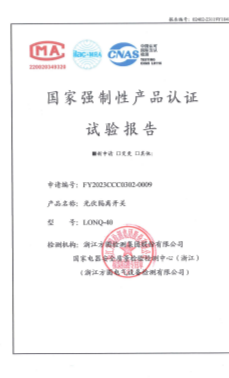
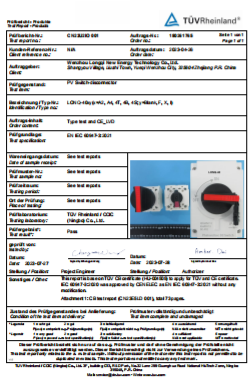
EUIPO

TUV

CB

UKCA

ROHS



CE

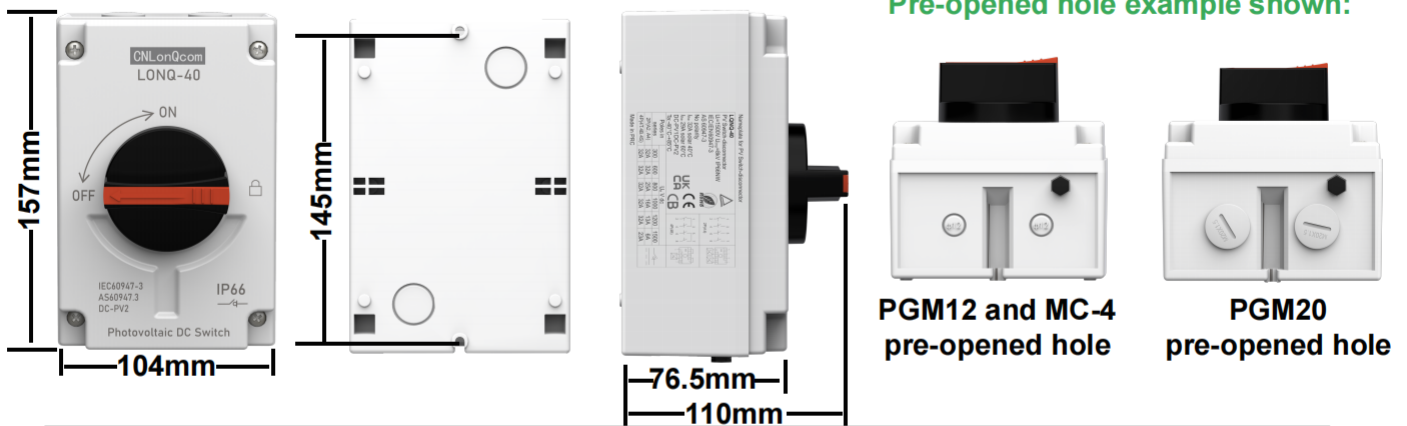
AZ

CCC

GTS

Patent

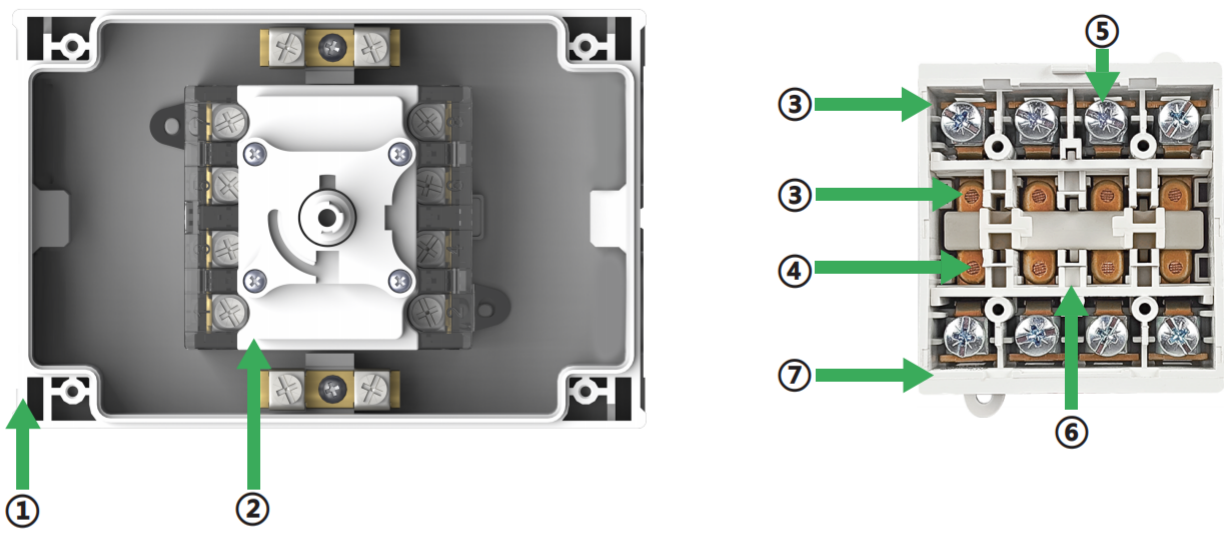
Main Technical Parameter



Technical Data

Model	LONQ-40					
Type	PV DC Disconnect Isolator Switch					
String	2 in 2 out or 2 in 1 out or 1 in 1 out or 1 in 2 out					
Rated Current In(A)	32	32	32	32	32	23
Rated Working Voltage Ue (V)	300	600	800	1000	1200	1500
Rated Insulation Voltage Ui (V)	1500V					
Pole	4P					
Rated Impulse Withstand Voltage Uimp (kV)	8					
Short-Time Withstand Current Icw (kA)	1					
Standard	IEC/EN60947-3 GB/T 14048.3					
Insolation Feature	Yes					
Levels of Protection	IP66					
Housing Material	PC					
Conductor Material	Copper					
Quality Certificate	TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS					
Mechanical Life (times)	20000					
Electrical Life (times)	6000					
Knob Positions	OFF at 9 hr , ON at 12 hr					
Operating Temperature	-40°C to +85°C					
Humidity	95%					
Altitude	2000m					
Installation	Wall Mounting					
Size and Weight						
Product Size (mm)	157*104*110					
Product Weight (kg)	0.64					
Individual Package Size (mm)	160*110*115					
Individual Package Weight (kg)	0.7					
Packaging Details	1Pcs per inner box, 20Pcs per carton					
Outer Box Size(cm)	570*340*260					
Outer Box Weight(kg)	15					

Product Details

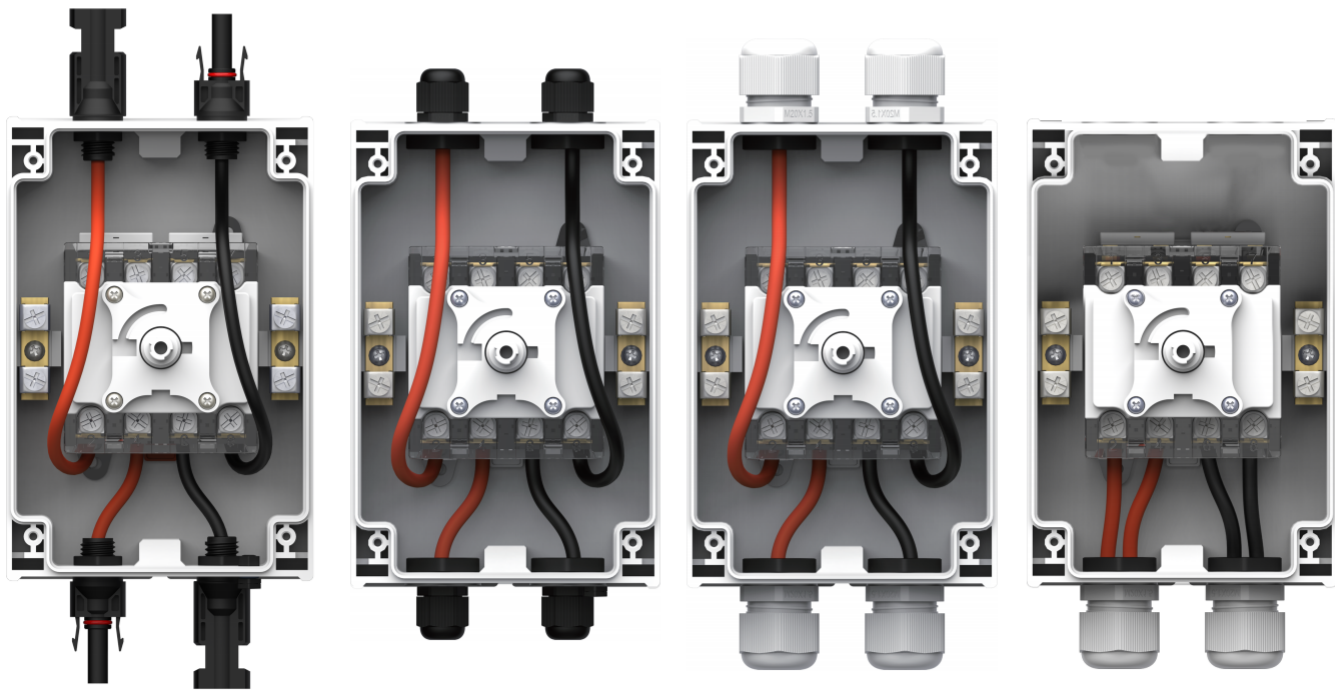


- ① **PC shell:** high strength, drop-resistant and durable
- ② **Isolator:** EU TUV and CE certified
- ③ **Thick Copper Conductor:** Low resistance and low heat generation
- ④ **Silver Plated Contacts:** Anti-oxidation
- ⑤ **Corrosion Resistant Screws:** Salt Spray Tested
- ⑥ **Magnet:** Fast arc extinguishing
- ⑦ **PA Housing:** UL94V-0 flame retardant grade

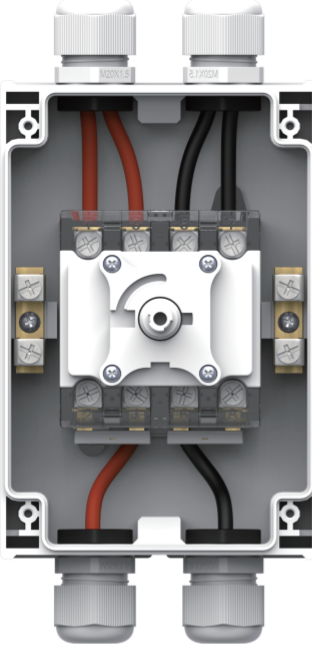
Contact Wiring Diagram

Tip: Non-polarized design: top-in/bottom-out or bottom-in/top-out are possible

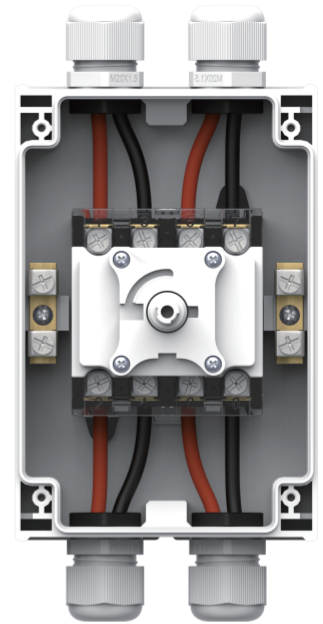
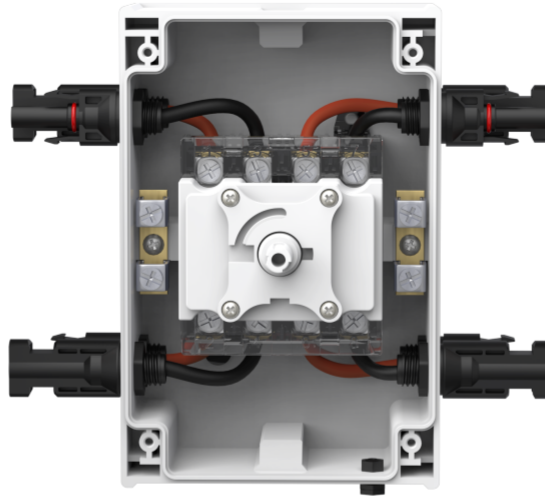
1 in 1 out example



2 in 1 out example



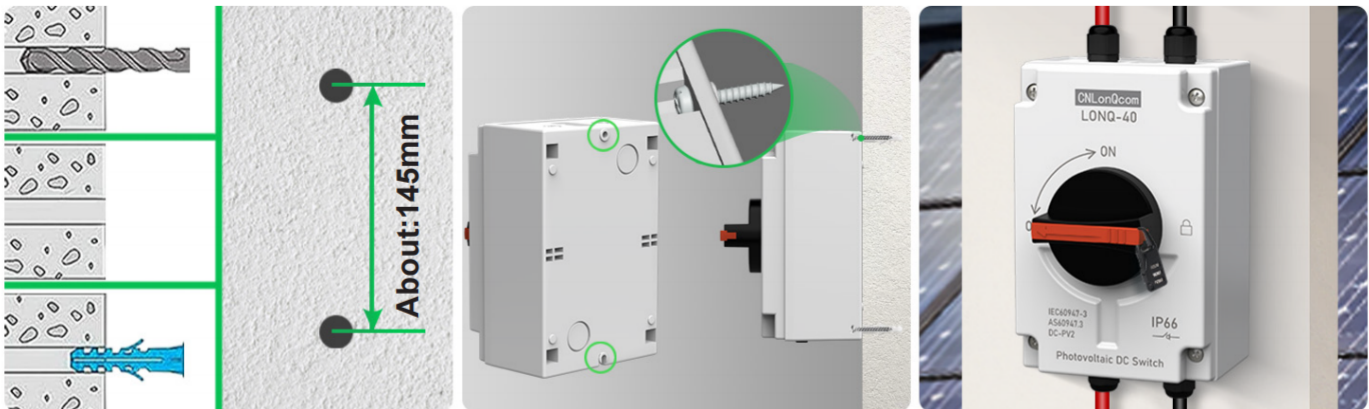
2 in 2 out example



Contact Wiring Diagram

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

Wall Mount



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

Connect the PV cables and complete the installation of the PV protection system.

Tip:

① Please disconnect the power supply when installing the wiring, it is better to ask professional electricians to install.

② The wiring of then disconnect switch must be correct and reliable to prevent poor contact, short circuit and other phenomena in. During the wiring process, appropriate wire diameter and wiring method should be used to ensure firm and reliable wiring.

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

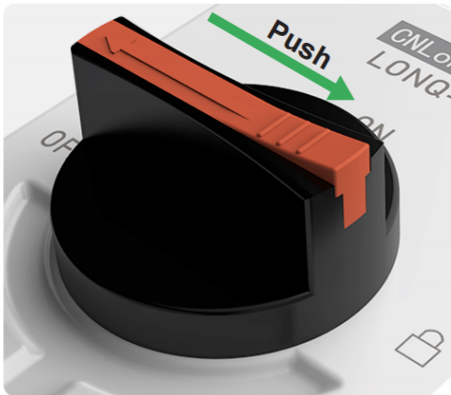
This lock is set to open at '000' during production. You can customise the reset to a new combination.

To reset your password:

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



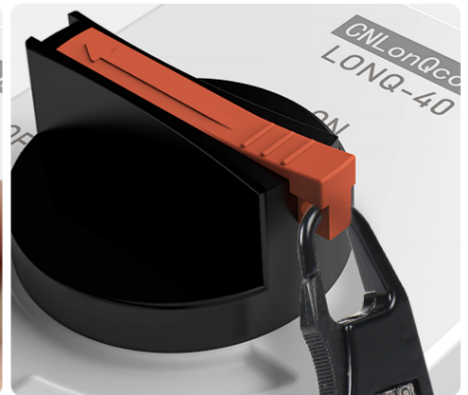
Lock Installation



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.

Optional Accessories

① M12 Connector

IP68 waterproof, flexible installation, suitable for 3~6.5mm diameter cables.

① M20 Connector

IP68 waterproof, dual holes with waterproof rubber for flexible installation, suitable for 2.5~6mm diameter cables

③ MC-4 Connector

IP67 Waterproof, Plug & Play, PV Universal Connector

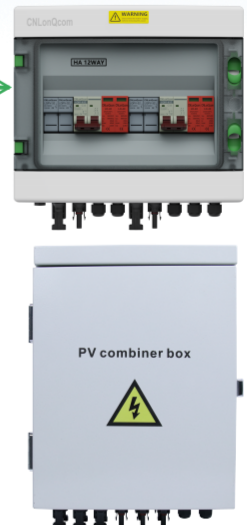
④ Blade Terminal

Combination of insulating rubber and tinned copper conductors for safer and stronger wiring. Low resistance, anti-oxidation



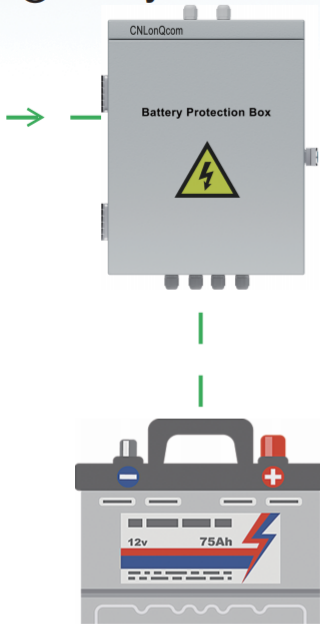
Complete Solutions for The Protection of PV Systems

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

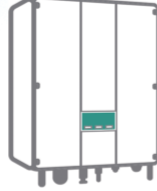


Complete Solutions for The Protection of AC Systems

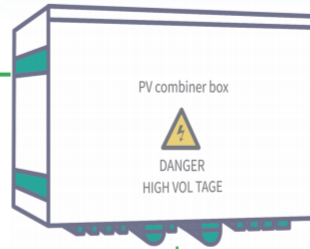
④ Battery Protection Box



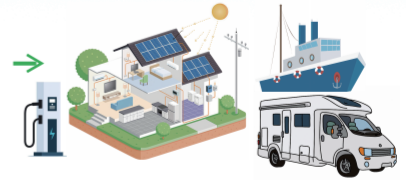
Inverter



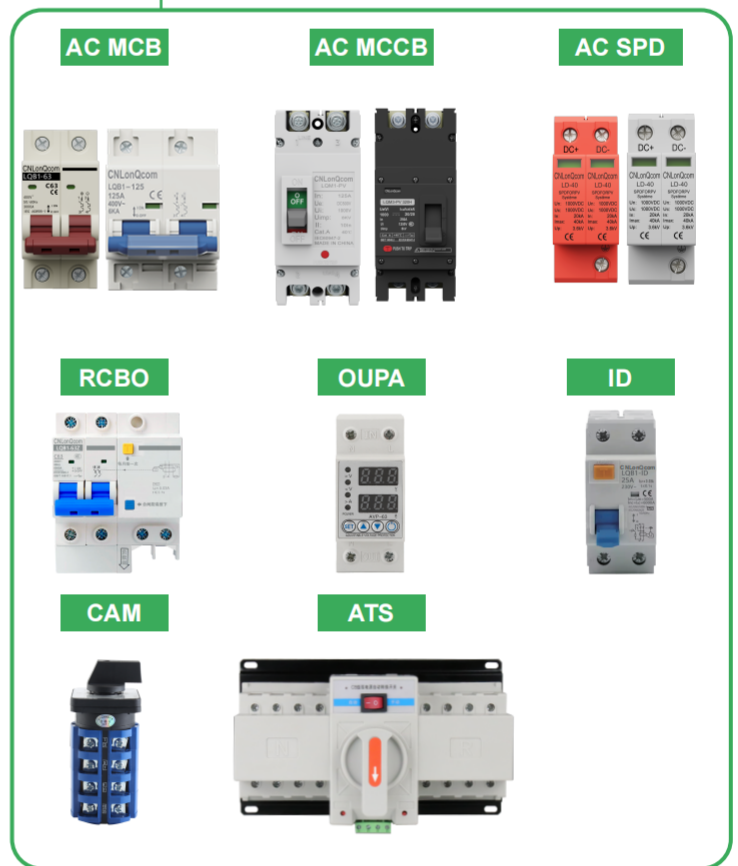
⑤ AC Combiner Box



AC Load



Battery Pack



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2. Exhibition/sales channels
3. Area price protection
4. OEM/ODM support
5. Technical& Accessories Support
6. Annual sales target rebate

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



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