

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.
- Equipped with M20 waterproof two-hole connector, you can DIY design 1 or 2 strings connection according to your needs.
- 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



EU IPO



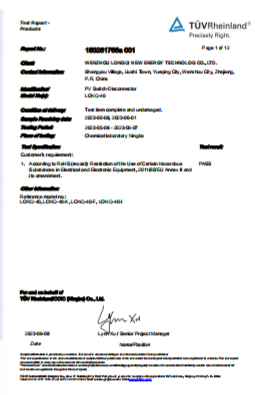
TUV



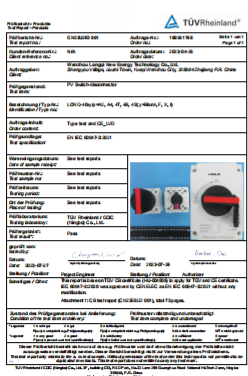
CB



UKCA



ROHS



CE



AZ



CCC

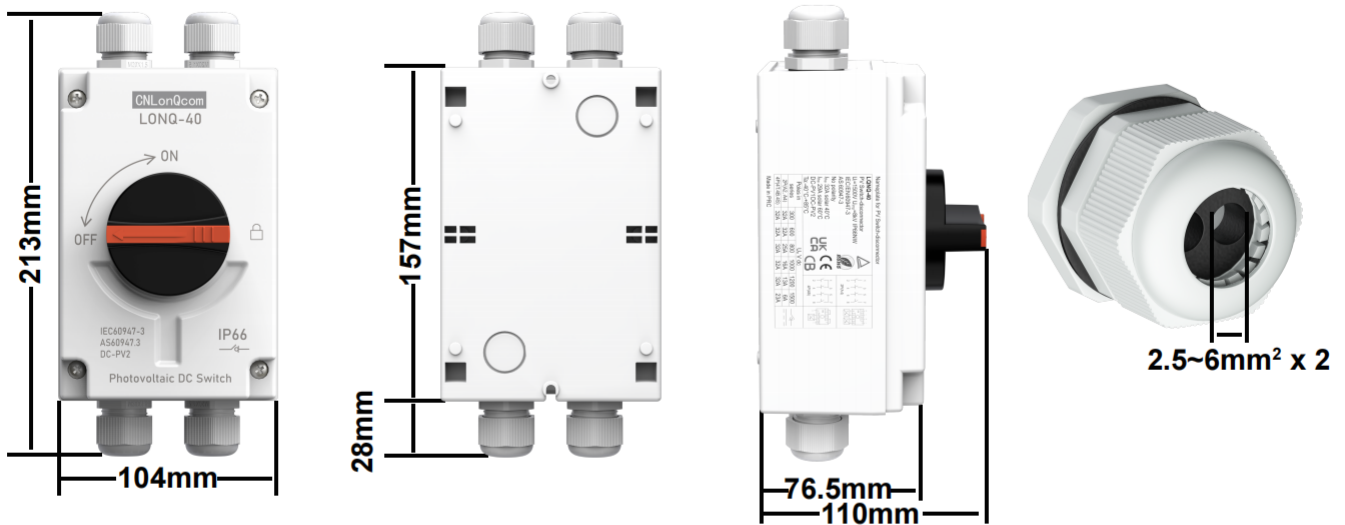


GTS



Patent

Main Technical Parameter



Technical Data						
<b>Model</b>	LONQ-40-M20					
<b>Type</b>	PV DC Disconnect Isolator Switch					
<b>String</b>	2 in 2 out or 2 in 1 out or 1 in 1 out or 1 in 2 out					
<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>	4P					
<b>Rated Impulse Withstand Voltage Uimp (kV)</b>	8					
<b>Short-Time Withstand Current Icw (kA)</b>	1					
<b>Standard</b>	IEC/EN60947-3 GB/T 14048.3					
<b>Insulation 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					

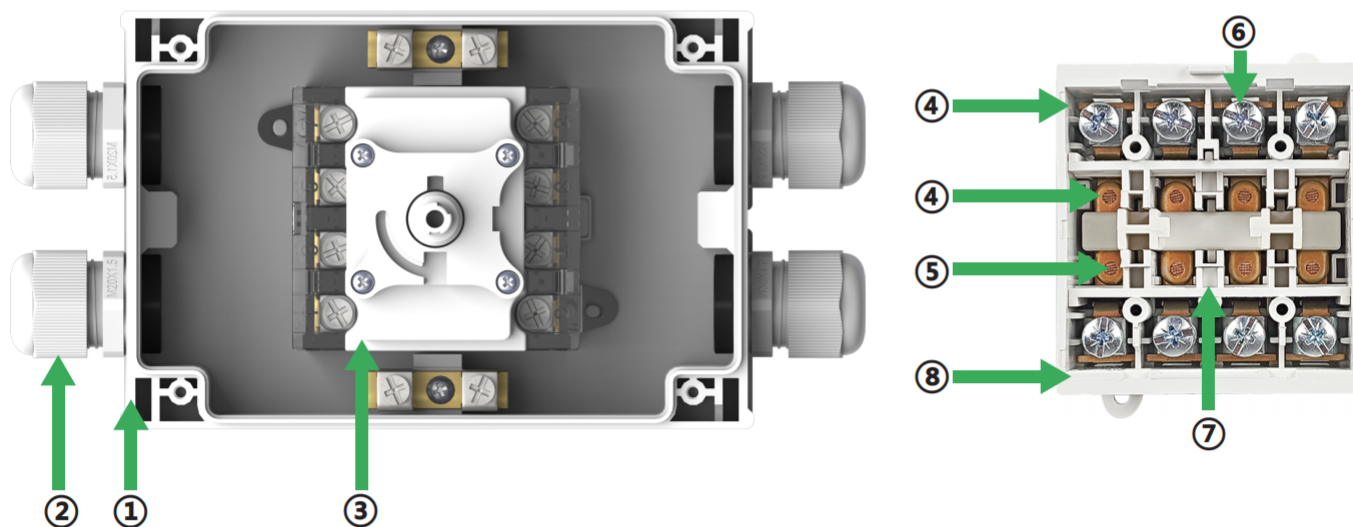
## Size and Weight



## Size and Weight

<b>Product Size (mm)</b>	213*104*110
<b>Product Weight (kg)</b>	0.672
<b>Individual Package Size (mm)</b>	160*110*115
<b>Individual Package Weight (kg)</b>	0.825
<b>Packaging Details</b>	1Pcs per inner box, 20Pcs per carton
<b>Outer Box Size(cm)</b>	575*340*260
<b>Outer Box Weight(kg)</b>	17.475

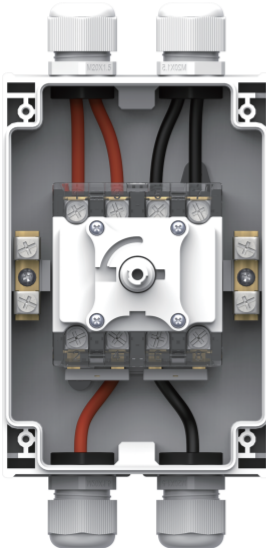
## Product Details



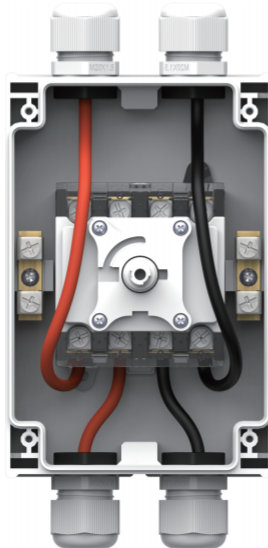
- ① **PC shell:** high strength, drop-resistant and durable
- ② **PG Series M20 Connector:** IP68 waterproof, recommended to use 2.5~6mm<sup>2</sup> cable
- ③ **Isolator:** EU TUV and CE certified
- ④ **Thick Copper Conductor:** Low resistance and low heat generation
- ⑤ **Silver Plated Contacts:** Anti-oxidation
- ⑥ **Corrosion Resistant Screws:** Salt Spray Tested
- ⑦ **Magnet:** Fast arc extinguishing
- ⑧ **PA Housing:** UL94V-0 flame retardant grade

Contact Wiring Diagram

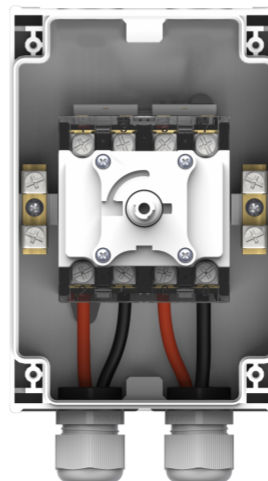
Contact Wiring Diagram			
Connect Method Code	Circuit Type	Wiring Diagram	Load Diagram
<b>2P(A2)</b>	2 poles in series for one string, 1 load		
<b>2P(A4)</b>	2 poles in series for one string, total 2 loads		
<b>4P(4T)</b>	4 poles in series, for one string		
<b>4P(4B)</b>	4 poles in series, for one string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



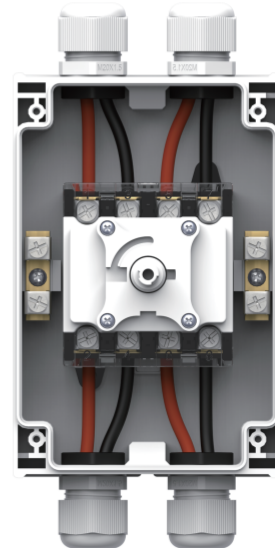
2 in 1out



1 in 1out



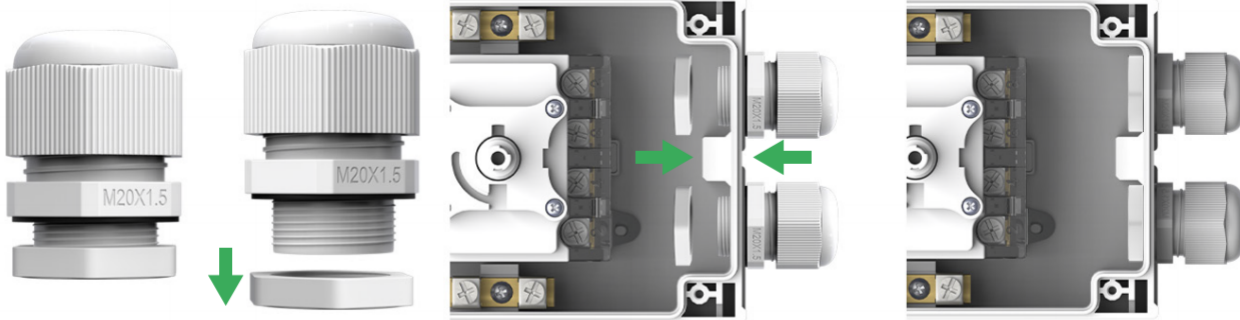
1 in 1out



2 in 2out



## M20 Connector Installation

**① Splitting the M20**

Remove the retaining ring from M20 by rotating it.

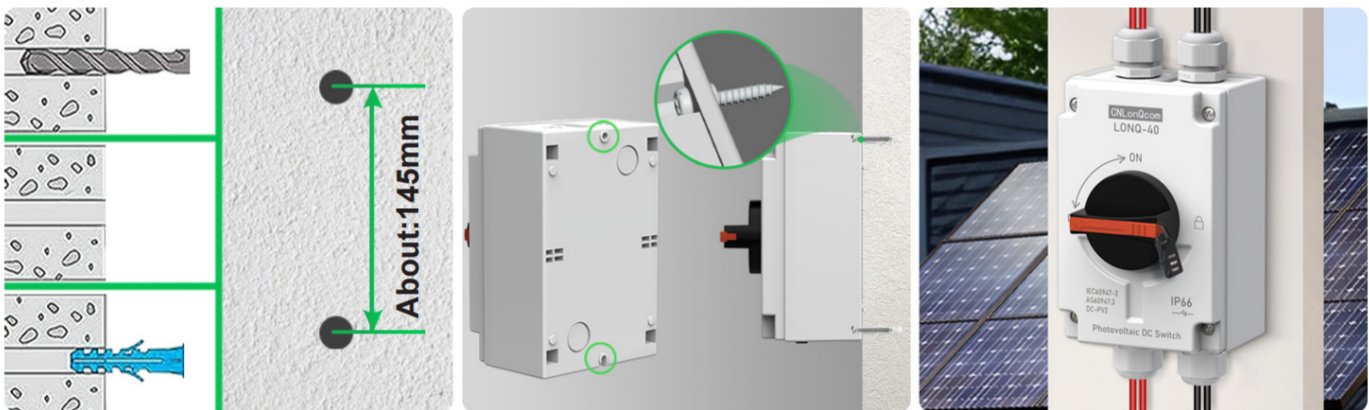
**② Align an aperture**

Place the retaining ring on the inside of the switch and the M20 on the outside partially through the hole.

**③ Tighten**

Splice and screw them together.

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

**Supplied with Accessories**

**①Expansion Tube\*4**

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

**②Mounting Screw\*4**

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



**③M20 Connector and Waterproof Plug\*4**

IP68 waterproof, flexible installation, optional single connector for 2- or 1-strand cables



**④Blade Terminal\*8(optional)**

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



**⑤Combination Lock**

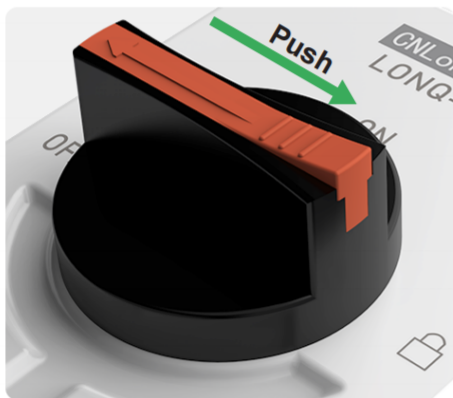
This lock is set to open at '000' during production. You can customise the reset to a new combination.

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**



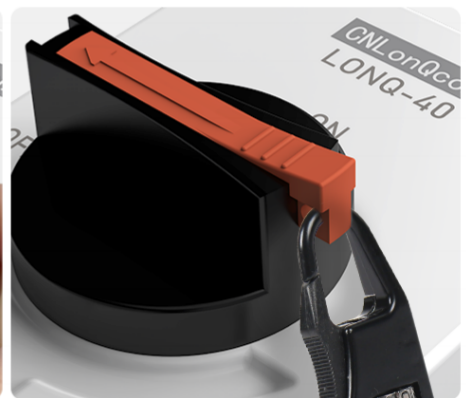
**①Push Handle**

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



**②Mounting**

Snap the combination lock into the hole

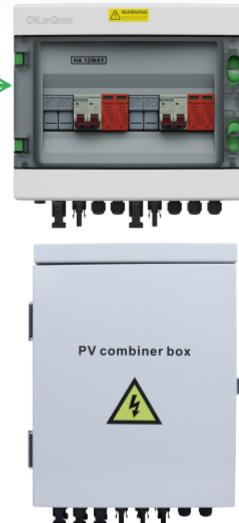


**③Rotary Code Dial**

Installation complete. Mess up the password.

Complete Solutions for The Protection of PV Systems

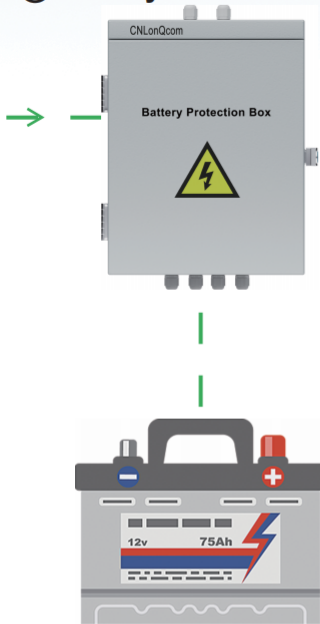
① PV Connector Series    ② PV Disconnect Switch    ③ PV Combiner Box



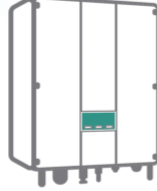


Complete Solutions for The Protection of AC Systems

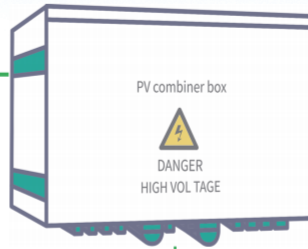
④ Battery Protection Box



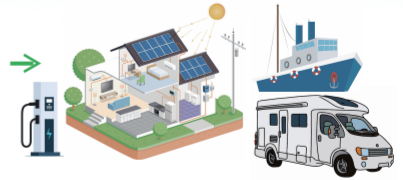
Inverter



⑤ AC Combiner Box



AC Load



Battery Pack

<p><b>AC MCB</b></p>	<p><b>AC MCCB</b></p>	<p><b>AC SPD</b></p>
<p><b>RCBO</b></p>	<p><b>OUPA</b></p>	<p><b>ID</b></p>
<p><b>CAM</b></p>	<p><b>ATS</b></p>	

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



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