

PV DC Disconnect Isolation Switchstandard:

IEC/EN60947-3 GB/T 14048.3

Function Introduction

Longi 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

LONQ →①

40 **→**② (1) CNLonQcom brand abbreviation (2) Design No.

Certification











EUIPO

TUV

CB

UKCA

ROHS











CE

AΖ

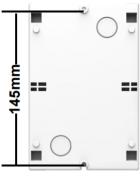
CCC

GTS

Patent

Main Technical Parameter







Pre-opened hole example shown:





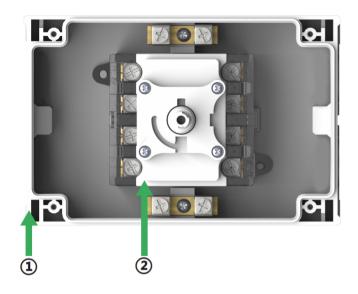
PGM12 and MC-4 pre-opened hole

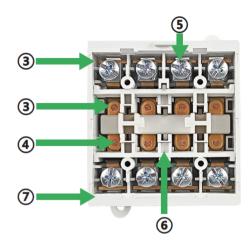
PGM20 pre-opened hole

Model		—110mm	ı <u>'</u> —						
Type									
String 2 in 2 out or 2 in 1 out or 1 in 1 out or 1 in 1 out or 1 in 2 out 32	Model	LONQ-40	LONQ-40						
Rated Current In(A) 32 32 32 32 32 32 32 3	Туре	PV DC D	PV DC Disconnect Isolator Switch						
Rated Working Voltage Ue (V) 300 600 800 1000 1200 1500	String	2 in 2 out	2 in 2 out or 2 in 1 out or 1 in 1 out or 1 in 2 out						
Rated Insulation Voltage Ui (V)	Rated Current In(A)	32	32	32	32	32	23		
Pole	Rated Working Voltage Ue (V)	300	600	800	1000	1200	1500		
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	Rated Insulation Voltage Ui (V)	1500V	1500V						
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	Pole	4P	4P						
Standard	Rated Impulse Withstand Voltage Uimp (kV)	8	8						
Insolation Feature Levels of Protection Housing Material Copper Conductor Material Copper Quality Certificate TUV. CE. CB. UKCA. AZ. CCC. ISO9001. ROHS Mechanical Life (times) Electrical Life (times) Knob Positions OFF at 9 hr , ON at 12 hr Operating Temperature -40°C to +85°C Humidity 95% Altitude 2000m Installation Wall Mounting Froduct Size (mm) Product Size (mm) 157*104*110 Product Weight (kg) 0.64 Individual Package Size (mm) Individual Package Weight (kg) 0.7 Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Short-Time Withstand Current Icw (kA)	1	1						
Levels of Protection Housing Material Copper Conductor Material Quality Certificate TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS Mechanical Life (times) Electrical Life (times) 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) Product Weight (kg) 0.64 Individual Package Size (mm) Individual Package Weight (kg) Packaging Details Outer Box Size(cm) 170° 340° 260	Standard	IEC/EN60	IEC/EN60947-3 GB/T 14048.3						
Housing Material Conductor Material Copper Quality Certificate TUV. CE. CB. UKCA. AZ. CCC. ISO9001. ROHS Mechanical Life (times) Electrical Life (times) 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) Individual Package Size (mm) Individual Package Weight (kg) Packaging Details Outer Box Size(cm) 570*340*260	Insolation Feature	Yes	Yes						
Conductor Material Copper TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS Mechanical Life (times) Electrical Life (times) Knob Positions OFF at 9 hr , ON at 12 hr Operating Temperature +40°C to +85°C Humidity Altitude 2000m Installation Wall Mounting Size and Weight Product Size (mm) 157*104*110 Product Weight (kg) Individual Package Size (mm) Individual Package Weight (kg) Packaging Details Outer Box Size(cm) TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS ### COUNTING ### C	Levels of Protection	IP66	IP66						
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	Housing Material	PC	PC						
Mechanical Life (times) Electrical Life (times) 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) Individual Package Size (mm) Individual Package Weight (kg) Packaging Details Outer Box Size(cm) 2000 Positional Package Weight (kg) 157*104*110 160*110*115 170 product Package Weight (kg)	Conductor Material	Copper	Copper						
Electrical Life (times) 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) Product Weight (kg) Individual Package Size (mm) Individual Package Weight (kg) Packaging Details Outer Box Size(cm) OFF at 9 hr , ON at 12 hr -40°C to +85°C Wall Mounting 157% 000 157% 000 157*104*110 157*104*110 157*104*110 160*110*115 170*340*260	Quality Certificate	TUV, CE	TUV、CE、CB、UKCA、AZ、CCC、ISO9001、ROHS						
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	Mechanical Life (times)	20000	20000						
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) Individual Package Weight (kg) 0.7 Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Electrical Life (times)	6000	6000						
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	Knob Positions	OFF at 9 hr , ON at 12 hr							
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	Operating Temperature	-40°C to +85°C							
Installation Wall Mounting Size and Weight Product Size (mm) 157*104*110 Product Weight (kg) 0.64 Individual Package Size (mm) Individual Package Weight (kg) 0.7 Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Humidity	95%							
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	Altitude	2000m							
Product Size (mm) 157*104*110 0.64 Individual Package Size (mm) Individual Package Weight (kg) 0.7 Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Installation	Wall Mounting							
Product Weight (kg) Individual Package Size (mm) Individual Package Weight (kg) Packaging Details 1Pcs per inner box, 20Pcs per carton 570*340*260	Size a	nd Weigh	nt						
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	Product Size (mm)	157*104*	157*104*110						
Individual Package Weight (kg) Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Product Weight (kg)	0.64							
Packaging Details 1Pcs per inner box, 20Pcs per carton Outer Box Size(cm) 570*340*260	Individual Package Size (mm)	160*110*	160*110*115						
Outer Box Size(cm) 570*340*260	Individual Package Weight (kg)	0.7	0.7						
	Packaging Details	1Pcs per inner box, 20Pcs per carton							
Outer Box Weight(kg) 15	Outer Box Size(cm)	570*340*260							
	Outer Box Weight(kg)	15							

www.cnlong.com 02

Product Details



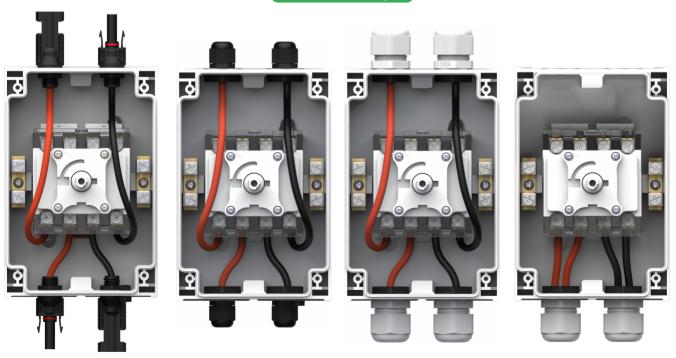


- (1)PC shell:high strength, drop-resistant and durable
- ②Isolator:EU TUV and CE certified
- (3) Thick Copper Conductor: Low resistance and low heat generation
- **4)Silver Plated Contacts:** Anti-oxidation
- (5) Corrosion Resistant Screws: Salt Spray Tested
- ⑥Magnet:Fast arc extinguishing
- ⑦PA Housing:UL94V-0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

Contact Wiring Diagram

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

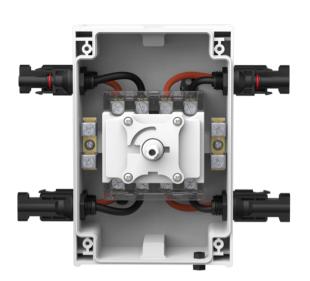
1 in 1 out example



2 in 1 out example



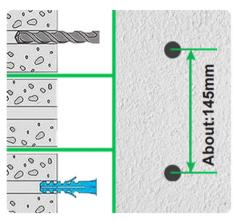
2 in 2 out example

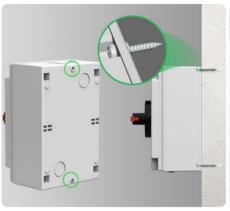




	Contact Wiring Diagram								
Connect Method Code	Circuit Type	Wining Diagram	Load Diagarm						
2P(A2)	2 poles in series for one string, 1 load	1 3	1 3 5 7 A2 0 2 4 6 8						
2P(A4)	2 poles in series for one string, total 2 loads	1 3 5 7	1 3 5 7 A4 0 2 4 6 8						
4P(4T)	4 poles in series, for one string	1 3 5 7	1 3 5 7 4T 2 4 6 8						
4P(4B)	4 poles in series, for one string	1 3 5 7	1 3 5 7 4B 2 4 6 8 + = -						
4P(4S)	4 poles in series, for one string	1 3 5 7	1 3 5 7 48 2 4 6 8						

Wall Mount







(1) Perforation

Use a drill bit to cut holes in the wall at appropriate locations and at the top and bottom of the box, complete the installation of the insert expansion tubes.

②Mounting

Screw into the pre-drilled holes

3Connect Wire

Connect the PV cables and 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 circuitand 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 make the screws more secure when they go in

(2) Mounting Screw*4

Put into the wall holes to Corrosion-resistant, passes 48-hour salt spray test, Phillips screwdriver recommended for mounting



③Combination 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







①Push HandlePush the red part above the handle to the right to expose the hole. **②Moun**Snap the the hole

②Mounting
Snap the combination lock into the hole

③Rotary Code Dial Installation complete. Mess up the password.

Optional Accessories

1M12 Connector

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



1M20 Connector

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



3MC-4 Connector

IP67 Waterproof, Plug & Play, PV Universal Connector



4 Blade Terminal

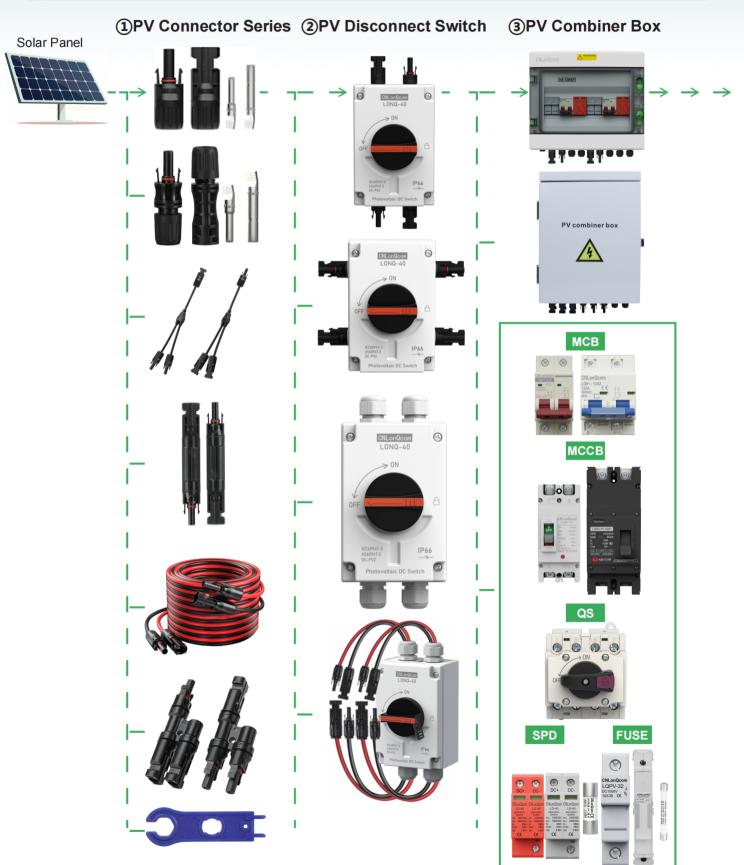
Combination of insulating rubber and tinned copper conductors for safer and stronger wiring.

Low resistance, anti-oxidation

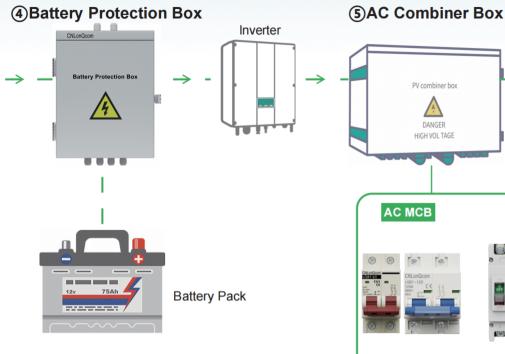


www.cnlong.com 06

Complete Solutions for The Protection of PV Systems



Complete Solutions for The Protection of AC Systems



WELCOME TO BECOME OUR AGENT We will provide our agents with:

- 1. More favourable price
- 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!



Contact phone number: +86 133-5331-9123



Contact Email:

sales@cnlonq.com



Company Address:

No.76, Jingyou 7 Road, Upstream Industrial Zone, Liu Shi Town, Yueqing City, Wenzhou City, Zhejiang Province, China.