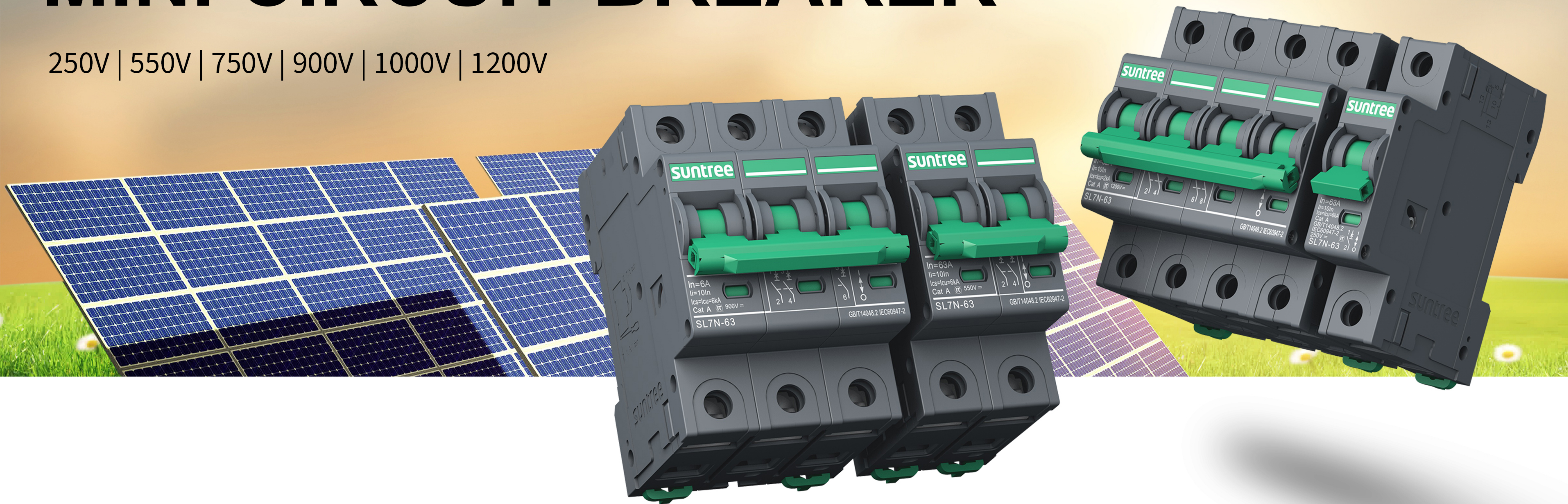



MINI CIRCUIT BREAKER

250V | 550V | 750V | 900V | 1000V | 1200V



Technology
Connects human and nature





CERTIFICATE
of Conformity
Low Voltage Directive 2014/35/EU


Registration No.: AN 50481674 0001
Report No.: NN2003HH 001

Holder: SUNTREE Electric Group Co., Ltd.
Xinguang Industrial Zone,
Liushi Town, Yueqing City
Zhejiang
P.R. China



Product: Circuit Breaker
(DC Miniature Circuit Breaker)


Identification: Type Designation: SL7N-63 (Suntree)
Serial No. : Engineering sample
Remark: Issued in conjunction with TÜV Rheinland license
R 50481055 0001 to 0002.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Kenny Shi

Date 25.09.2020

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
 The CE marking may be used if all relevant and effective EC Directives are complied with. 




Zertifikat **Certificate**

Zertifikat Nr. / Certificate No. R 50481055 Blatt / Sheet 0001

Ihr Zeichen / Client Reference	Unser Zeichen / Our Reference	Ausstellungsdatum / Date of Issue
L. X. F.	01-DJL-NN2003HH 001	25.09.2020 (day/month/year)

Genehmigungsinhaber / License Holder	Fertigungsstätte / Manufacturing Plant
SUNTREE Electric Group Co., Ltd. Xinguang Industrial Zone, Liushi Town, Yueqing City Zhejiang P.R. China	SUNTREE Electric Group Co., Ltd. Xinguang Industrial Zone, Liushi Town, Yueqing City Zhejiang P.R. China

Prüfzeichen / Test Mark Geprüft nach / Tested acc. to
 EN 60947-2:2017+A1

Zertifiziertes Produkt (Geräteidentifikation) / Certified Product (Product Identification)	Lizenzentgelte - Einheit / License Fee - Unit
<u>Circuit Breaker</u> (DC Miniature Circuit Breaker) Type Designation : SL7N-63 (Suntree)	8

Intended for Use : Photovoltaic (PV) systems
Reference Temperature : +40°C
Utilization Category : A
Number of Poles : 1) 1P Appearance
2) 2P Appearance
3) 3P Appearance
4) 4P Appearance

Rated Operation Voltage (Ue) : 1) DC 15/24/48/60/100/180/250V
2) DC 24/48/125/375/500/550/600/800V
3) DC 750/900V
4) DC 1000/1200V

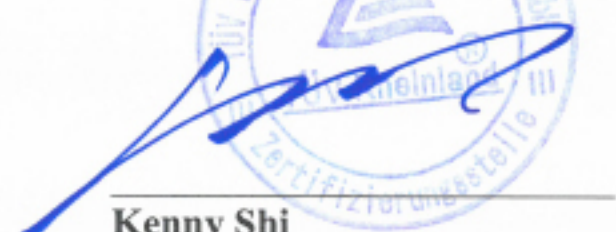
Rated Current (In) : 6/10/16/20/25/32/40/50/63A
Instantaneous Tripping Curve : Ii=10In (for C-type)
Ii=5In (for B-type)

Continued on page 0002

ANLAGE (Appendix) : 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle

Kenny Shi



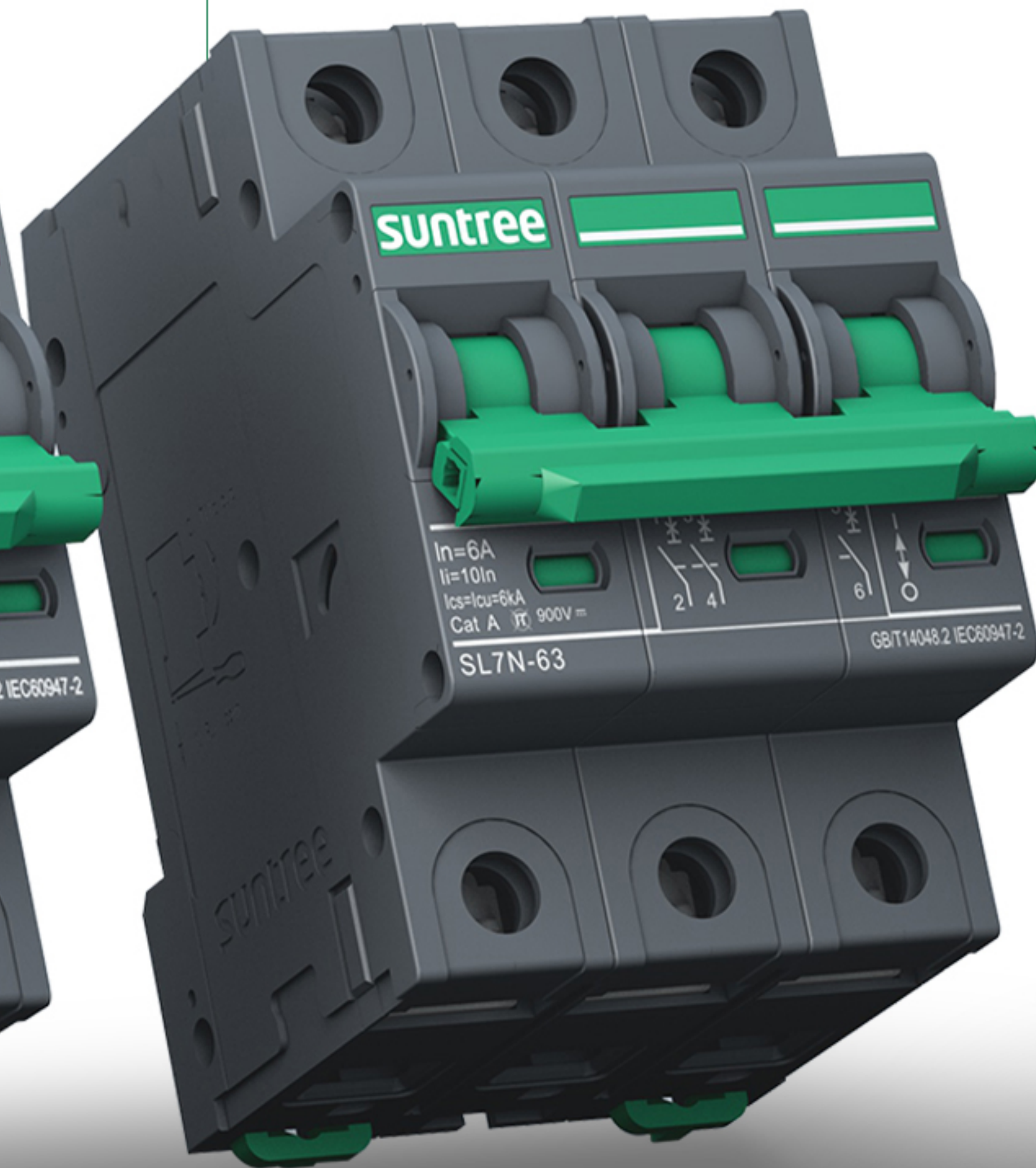
SL7N-63
1P DC 250V



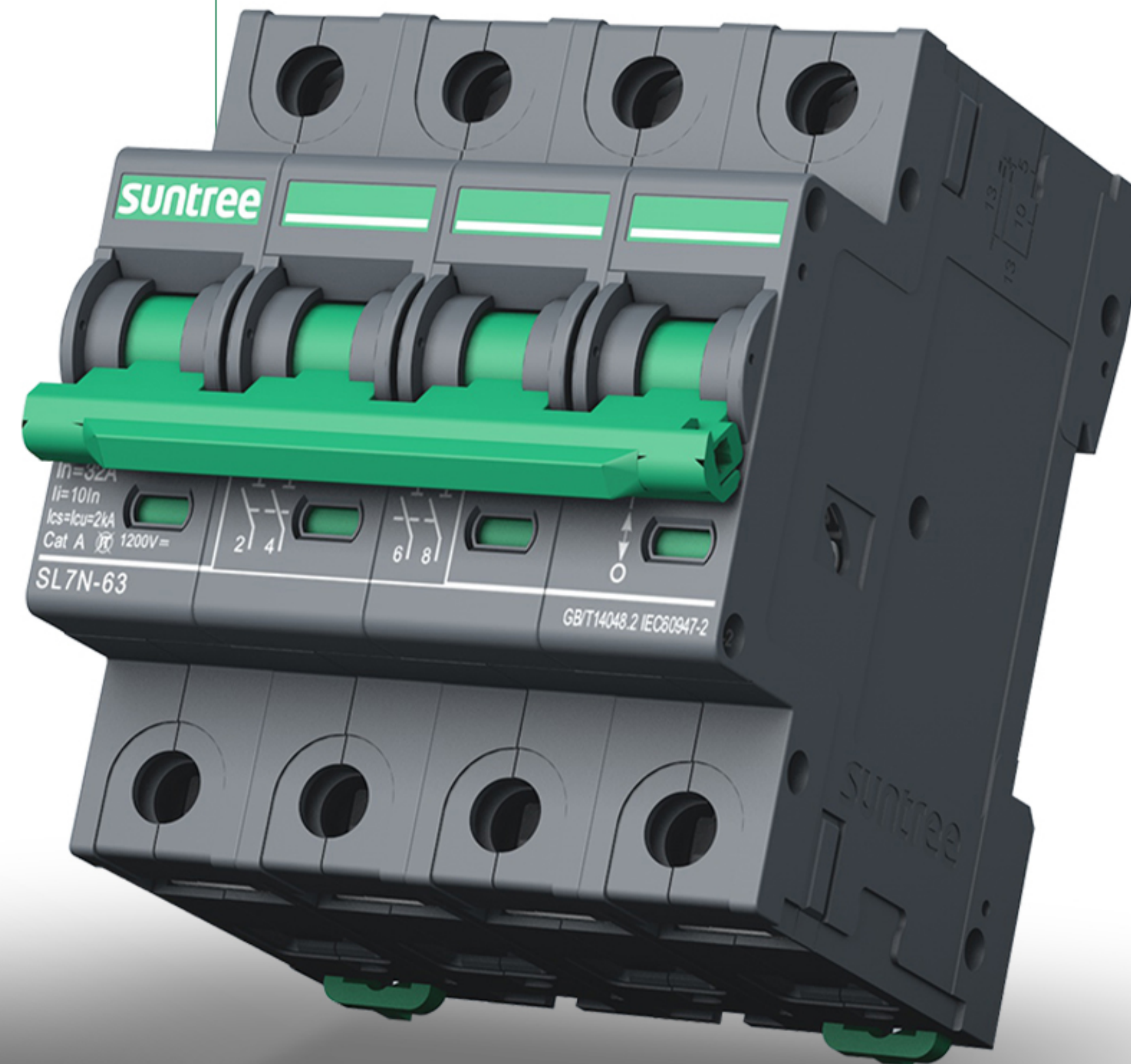
SL7N-63
2P DC 550V



SL7N-63
3P DC 750V 900V



SL7N-63
4P DC 1000V 1200V



You can choose the current:

6A , 10A , 16A

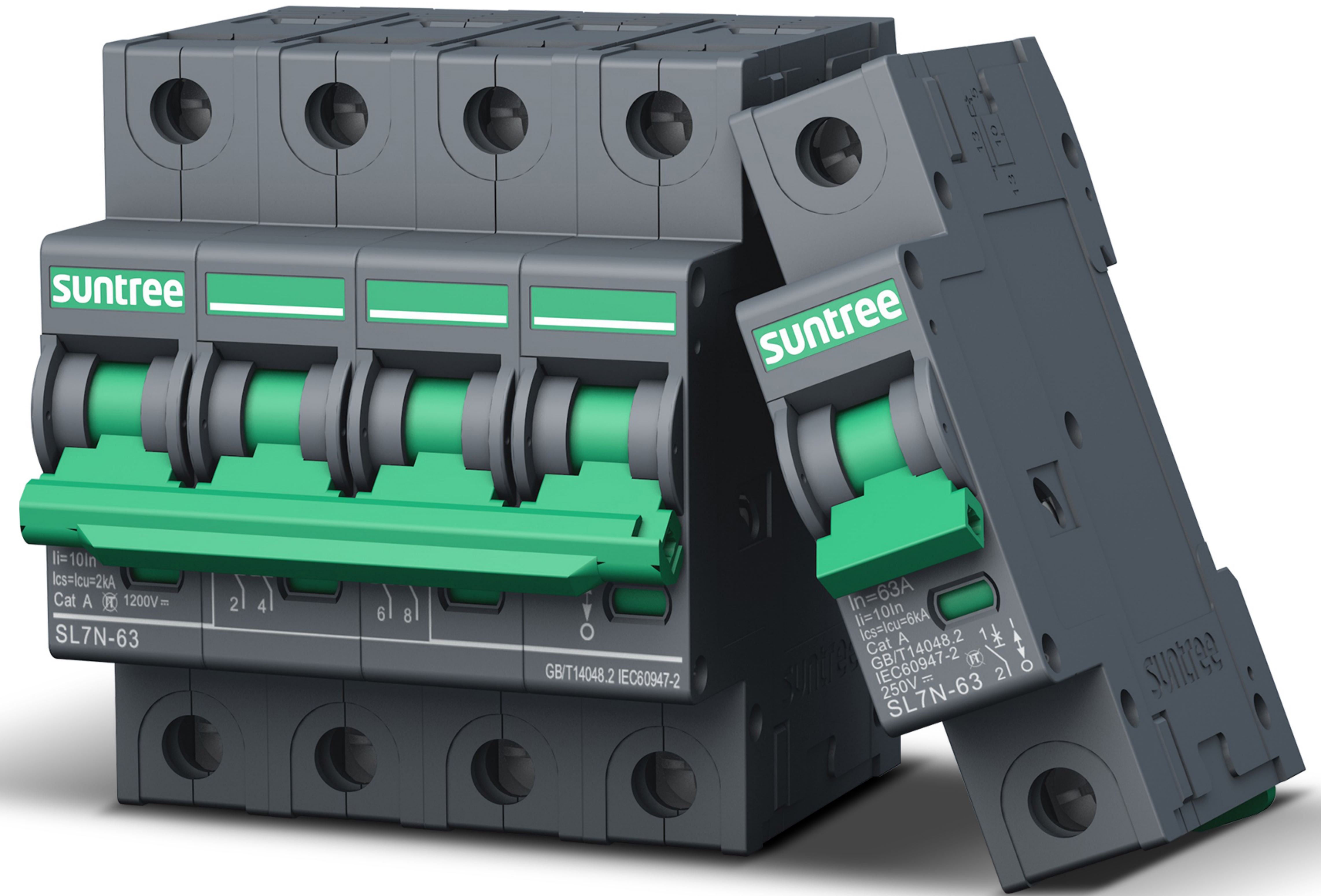
20A , 25A , 32A

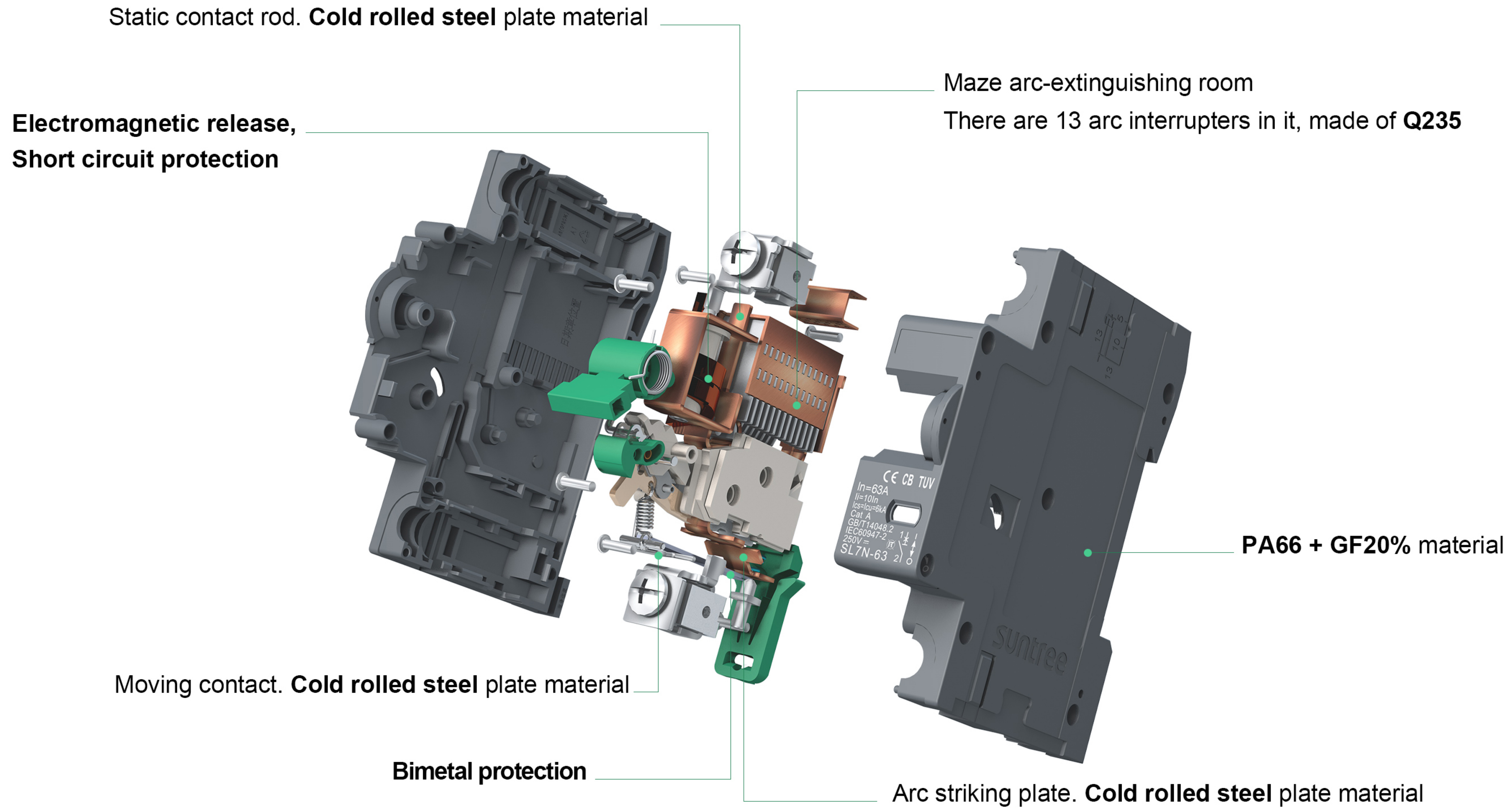
40A , 50A , 63A

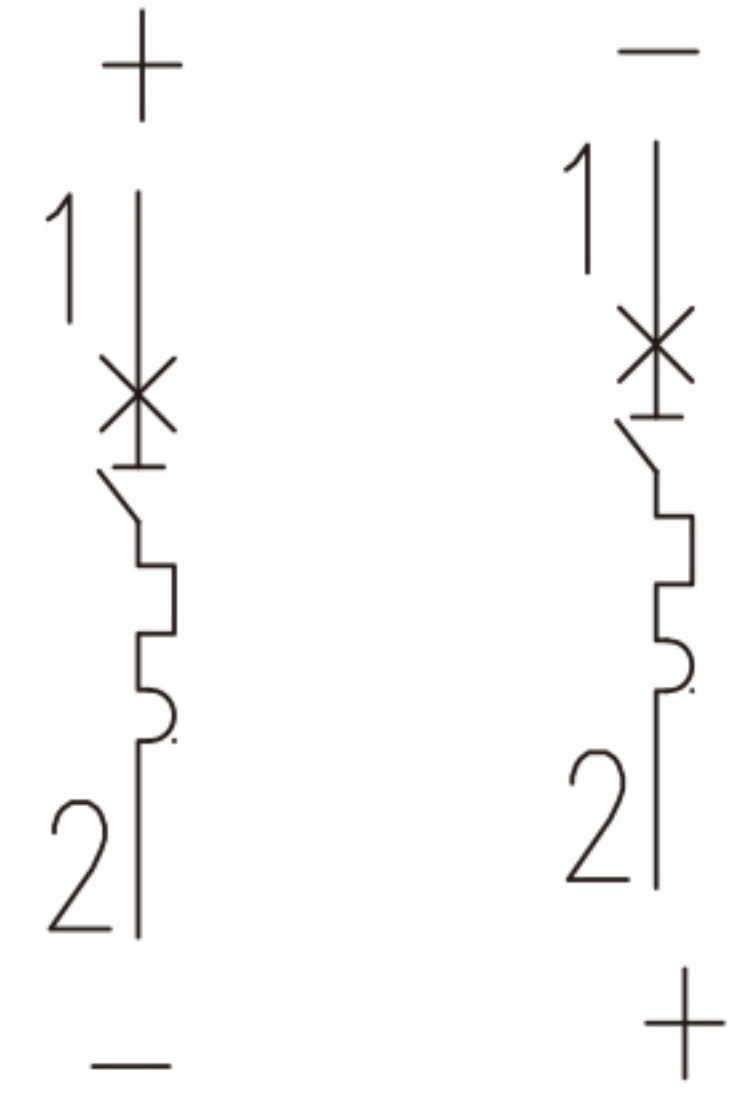


6KA

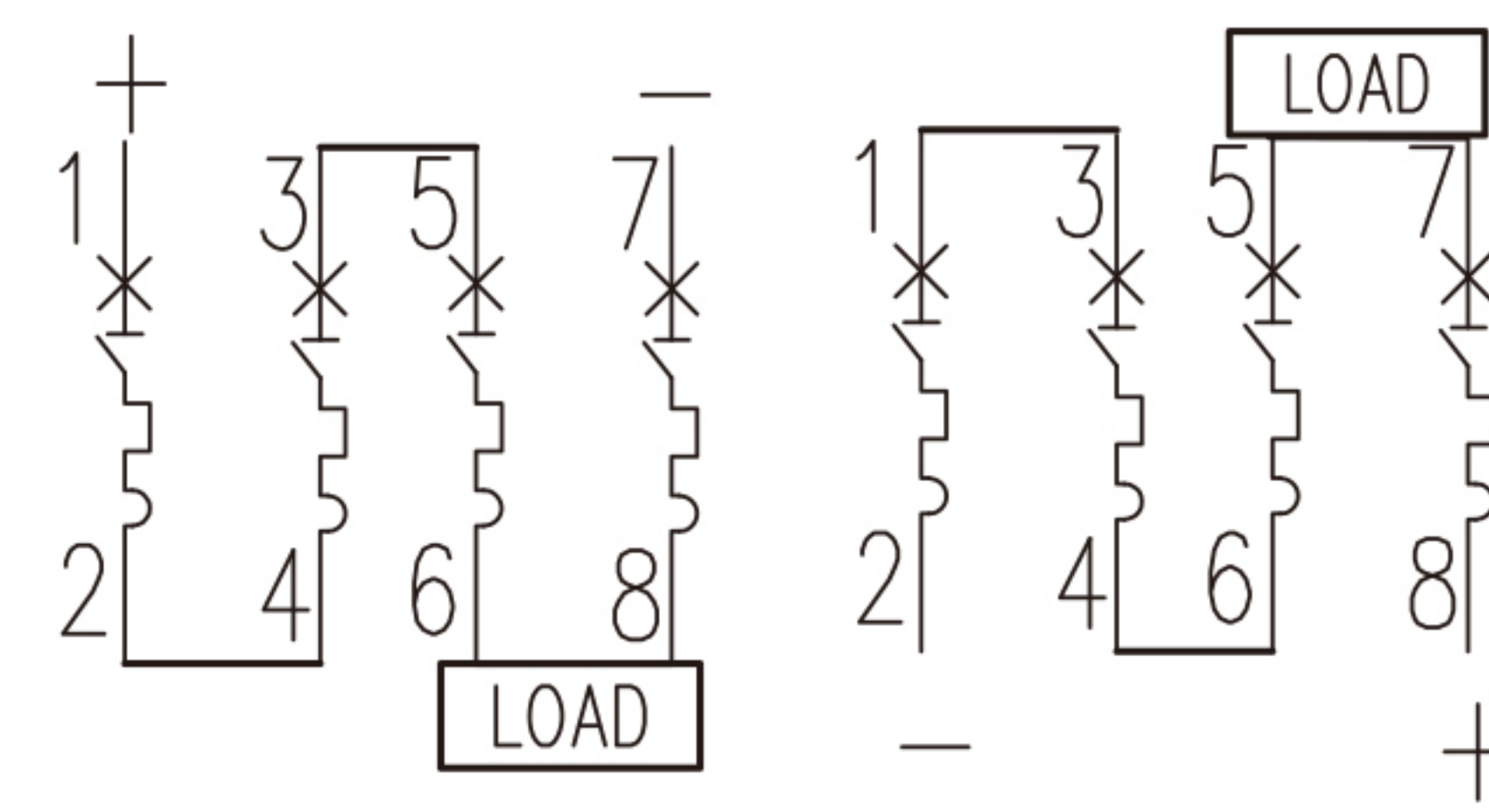
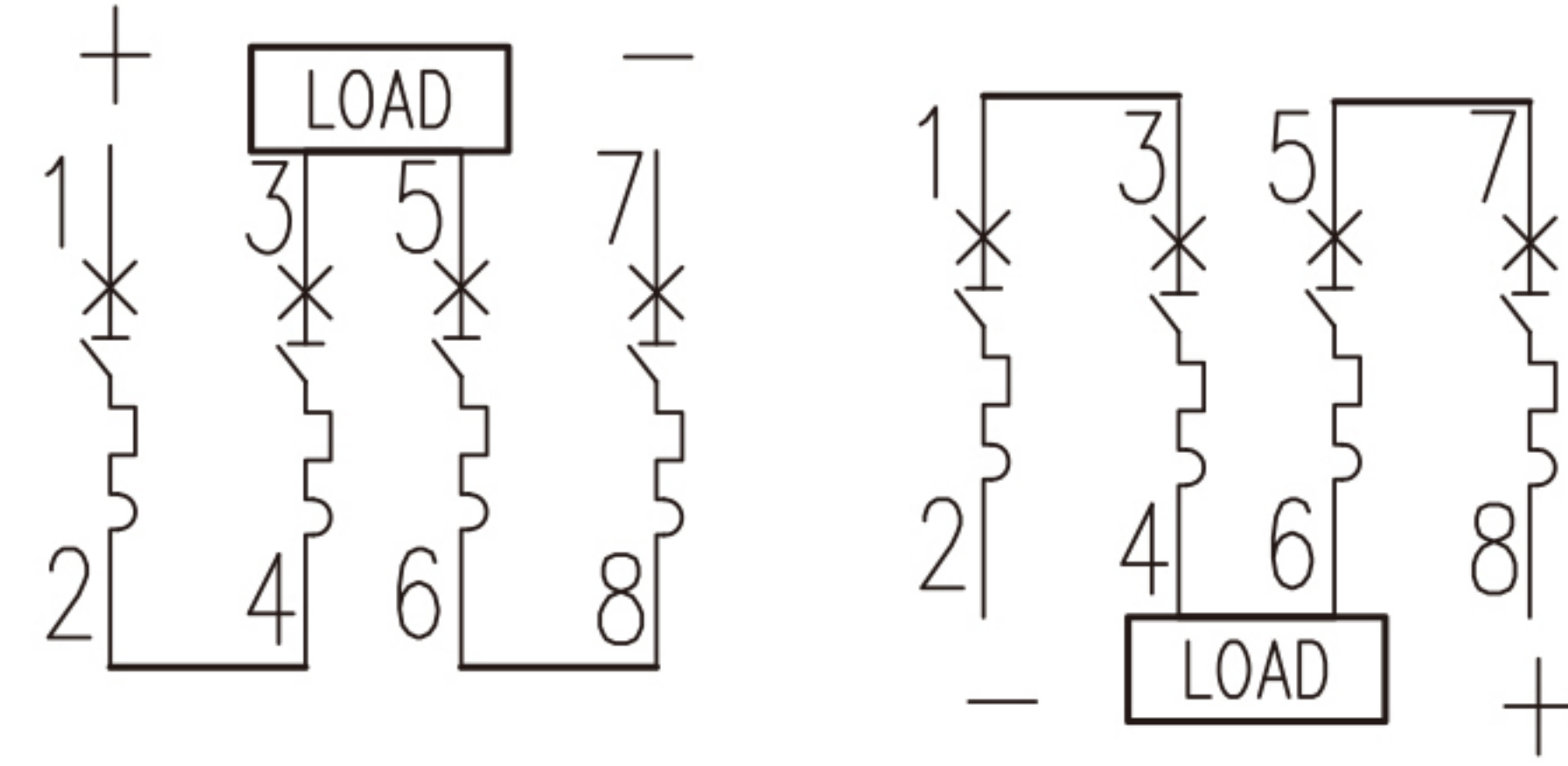
Small size, High segmentation



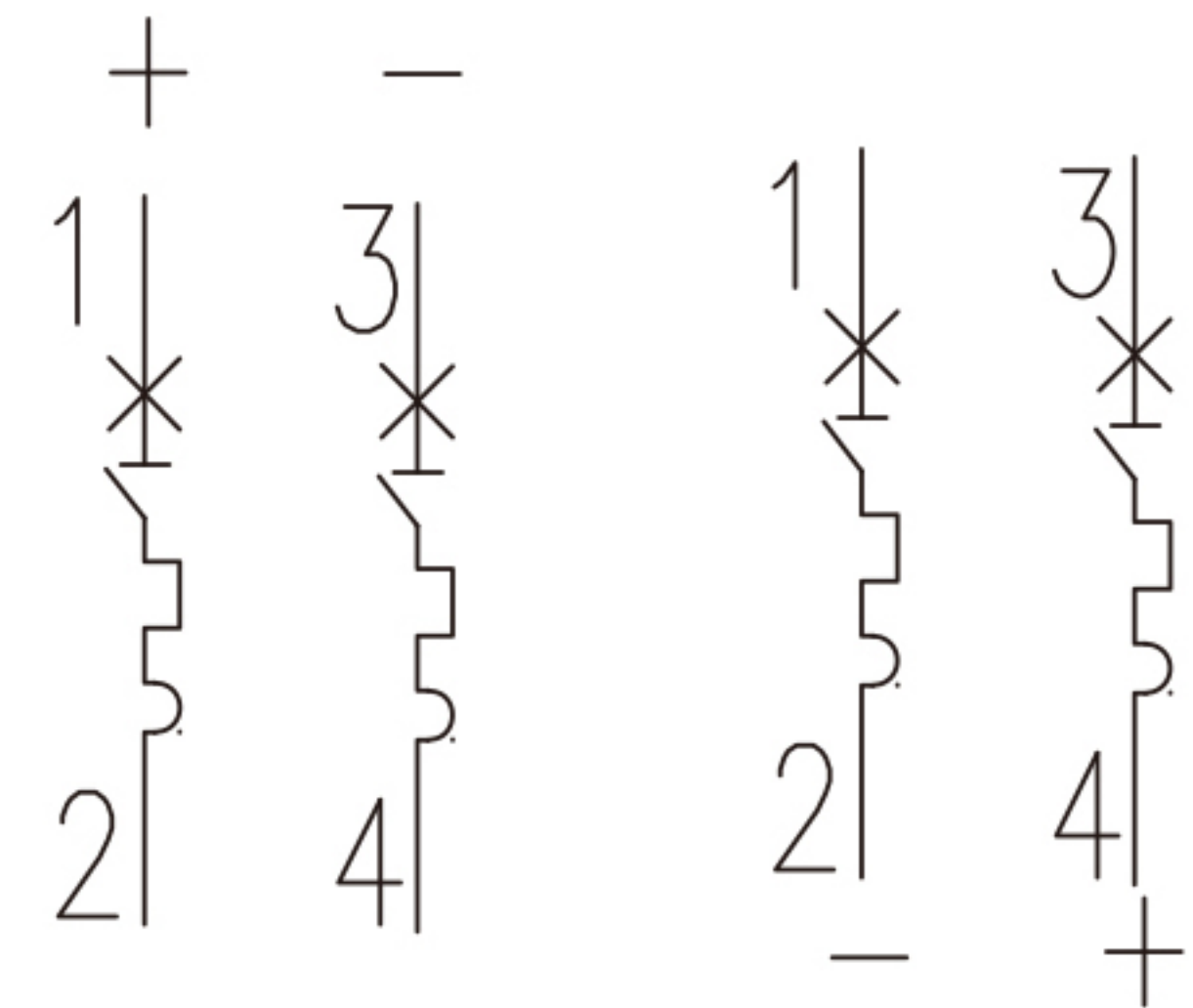
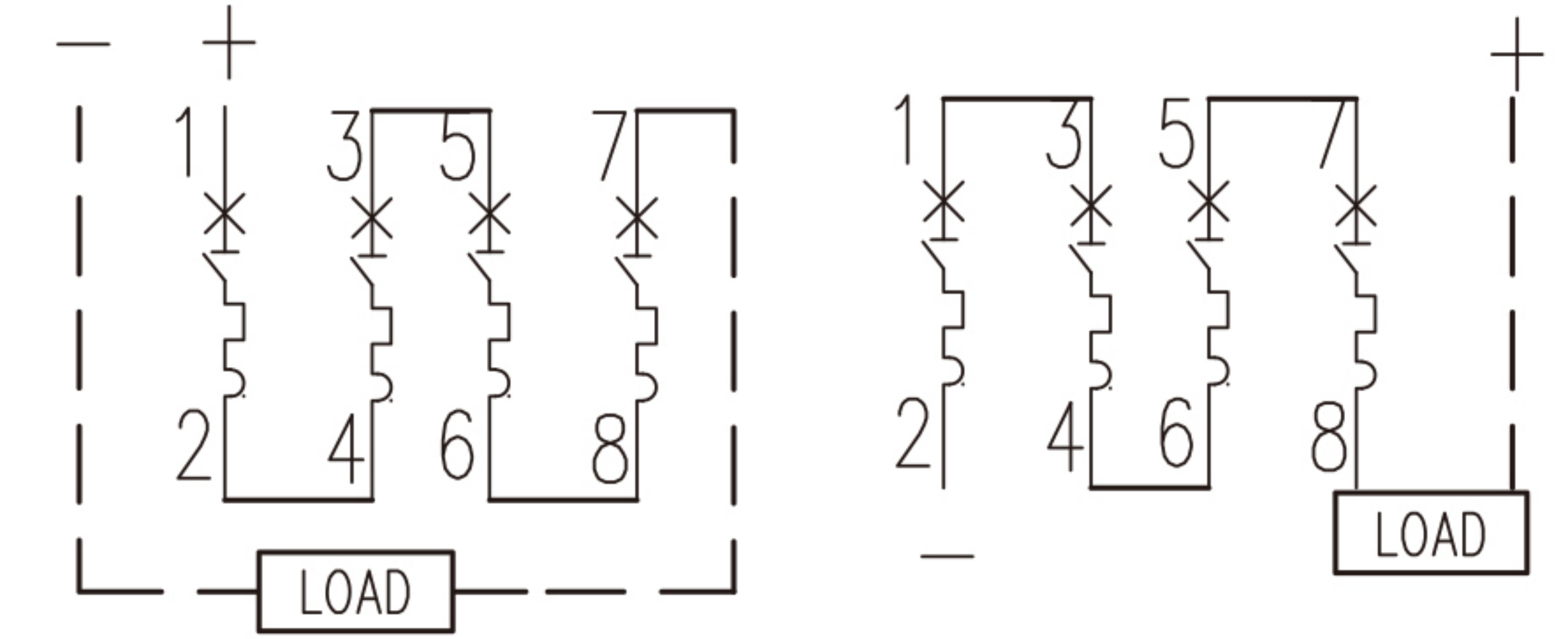




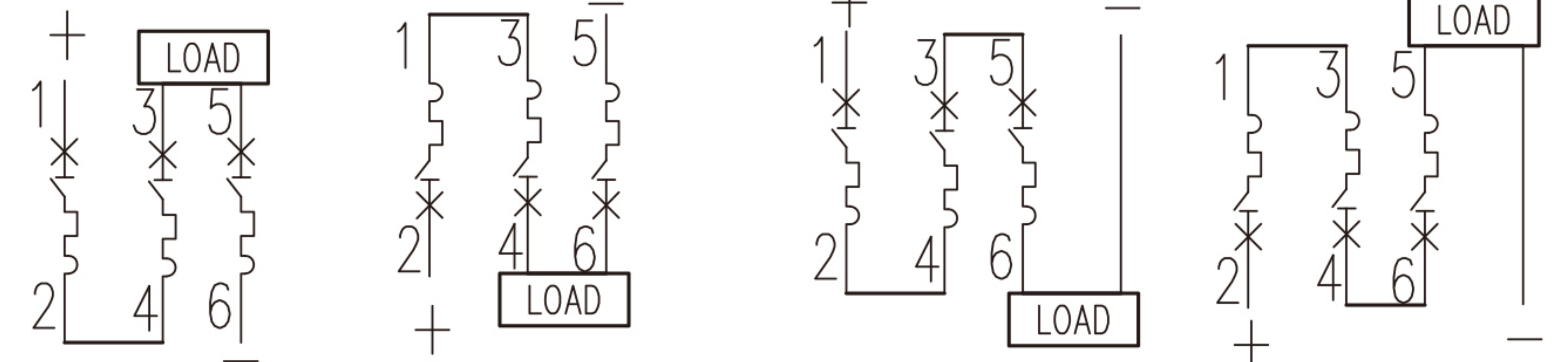
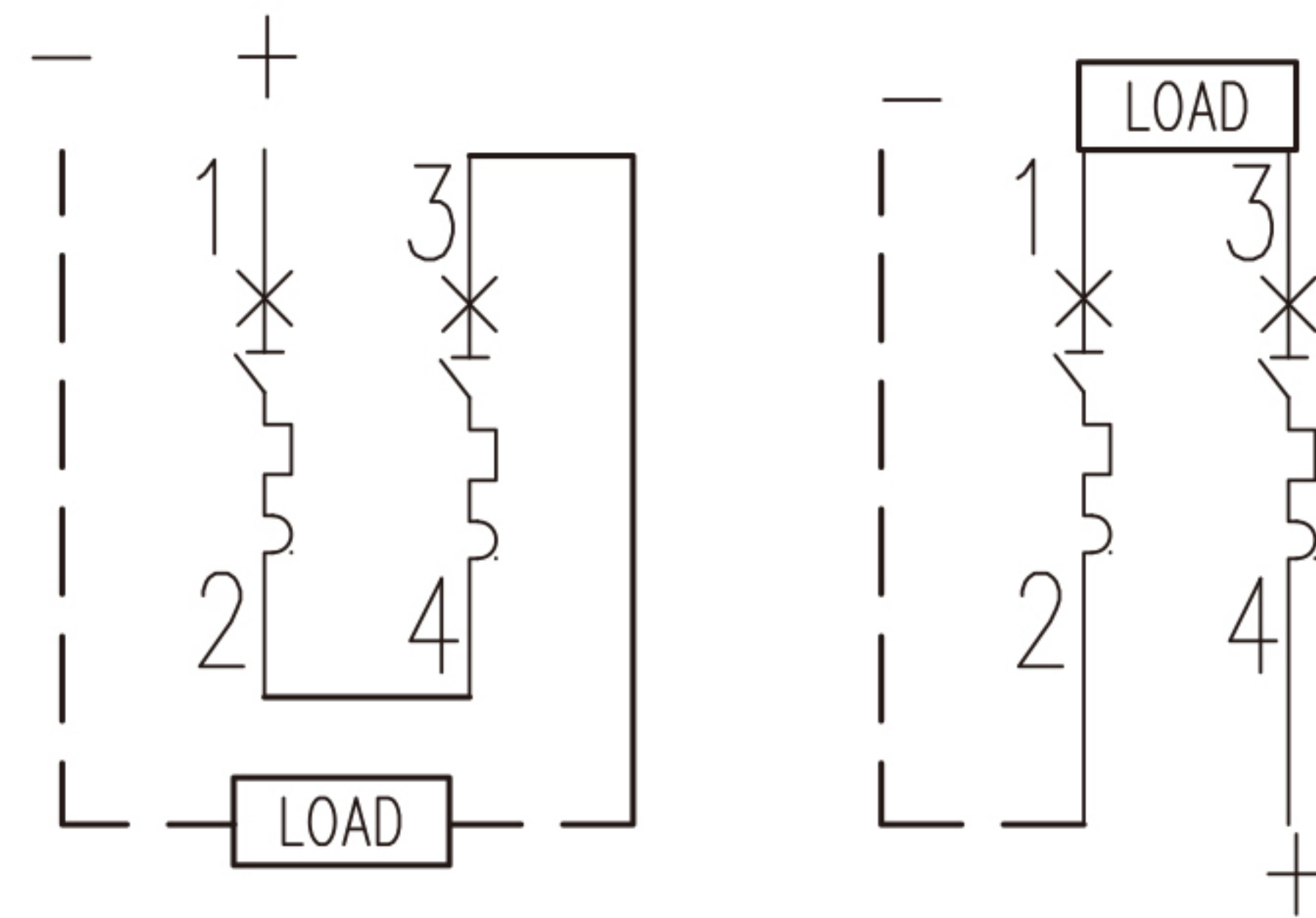
1P



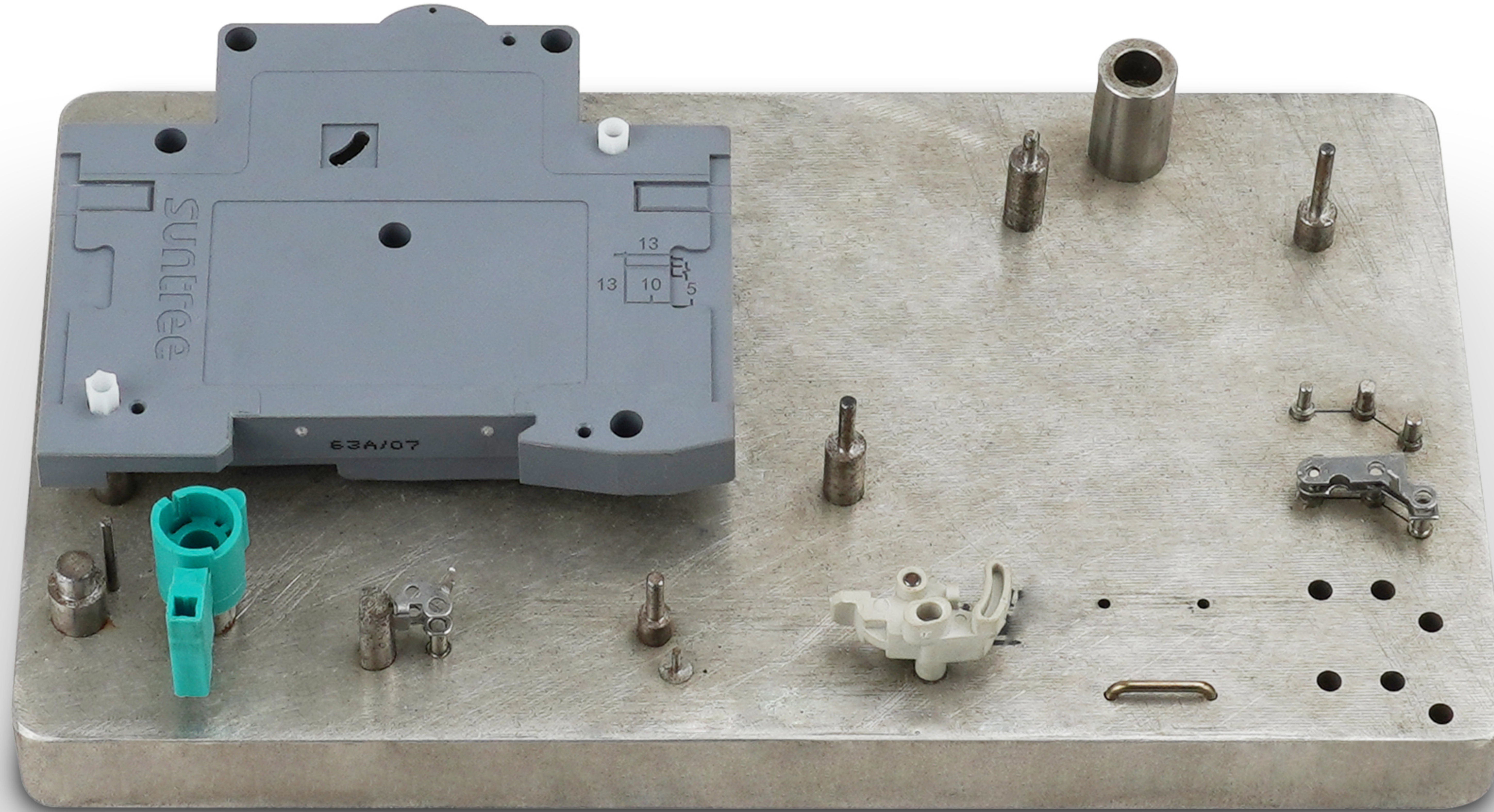
4P



2P



3P



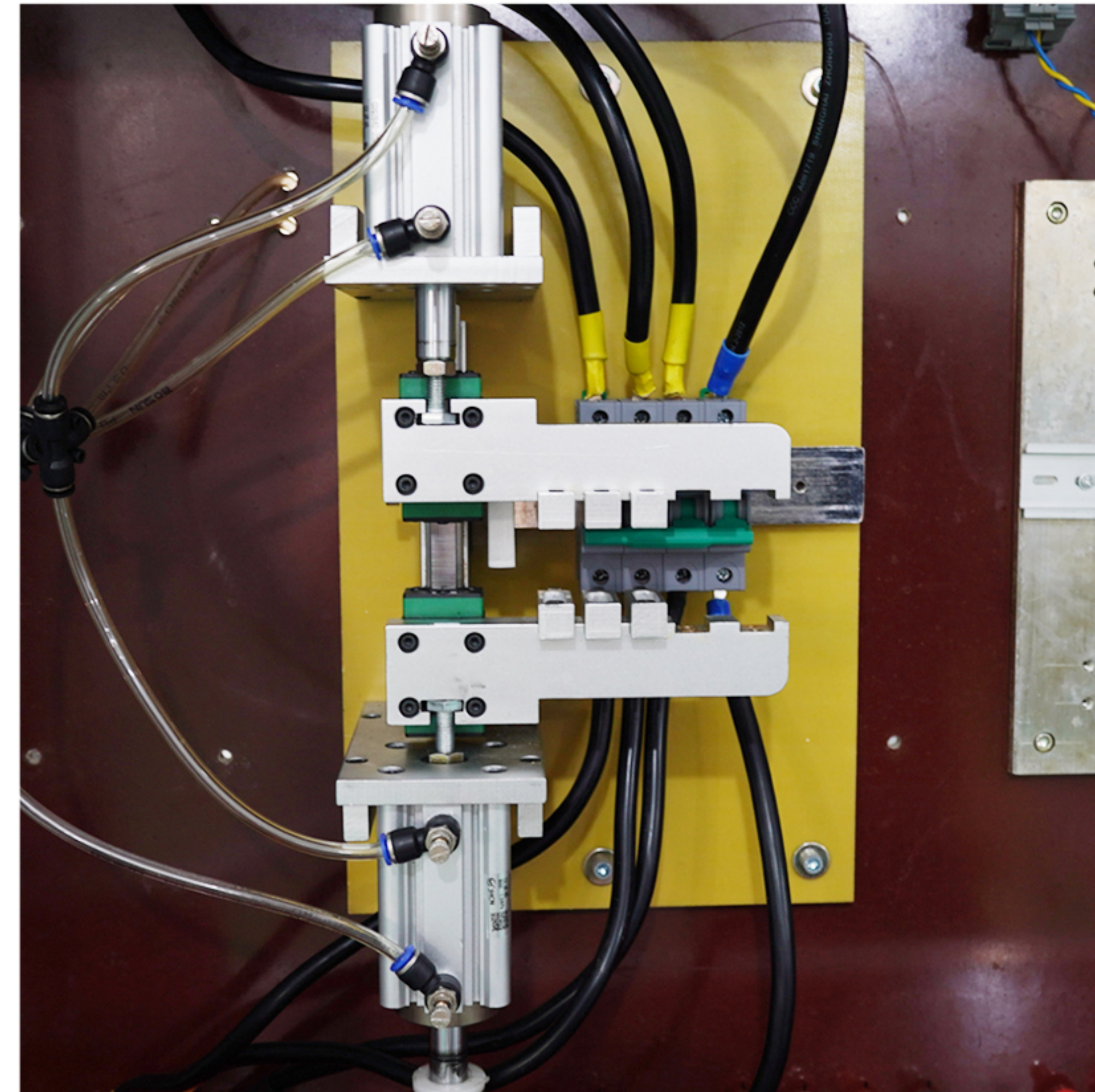
Each part of the product has the same size as the mold to ensure the rigor of product installation.



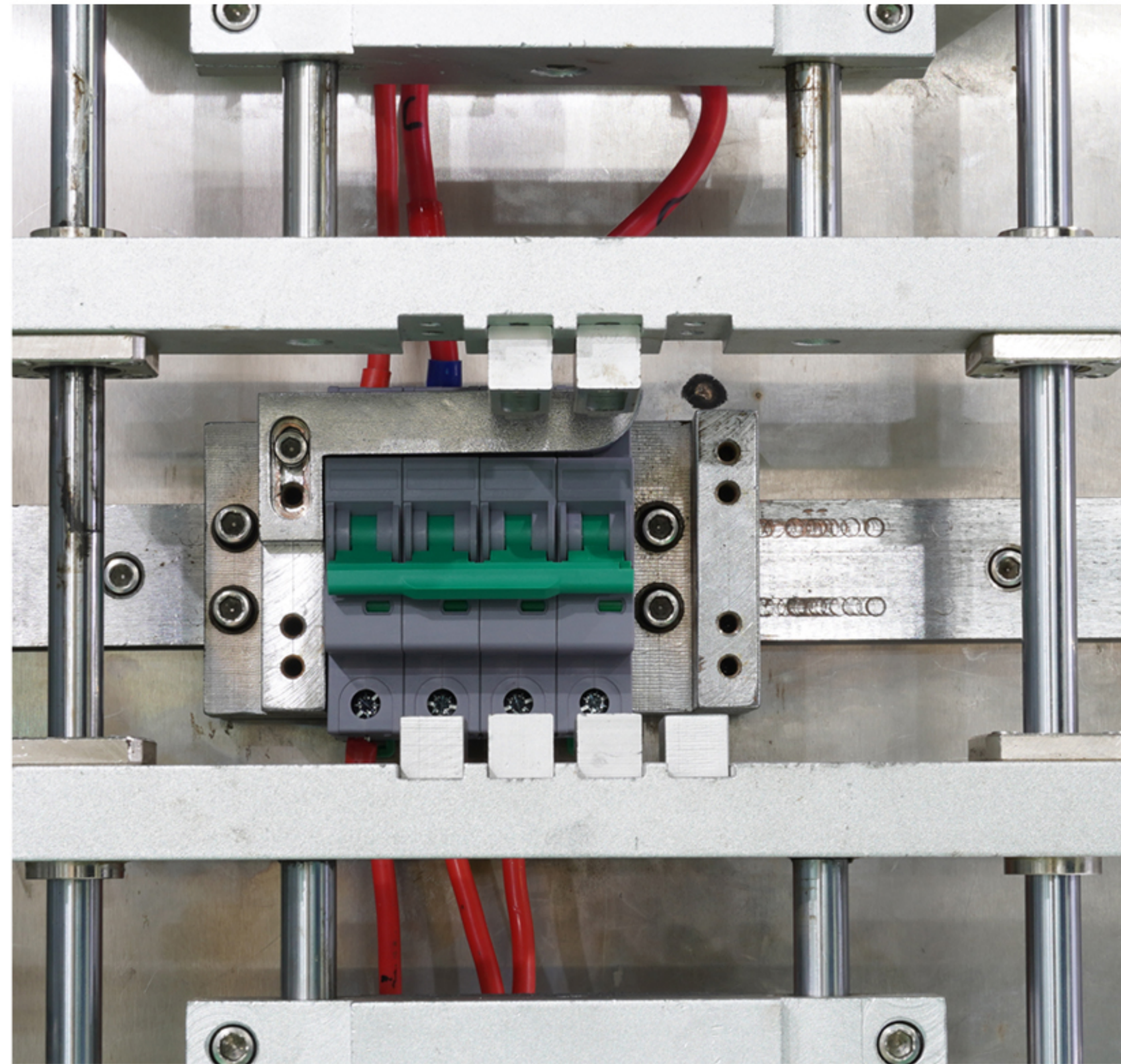
960°C flame retardant test

Under high temperature combustion, there will be no combustibles falling from the product, and it will not ignite the Cotton 30 cm below the product, which belongs to **V0** fire rating.





Simulate the real environment and test the arc extinguishing ability of products.
 Open and close **4000** times under load condition.
 Turn on the maximum current of the product once every 30 seconds.
 Check whether the stationary contact and the moving contact are closed.



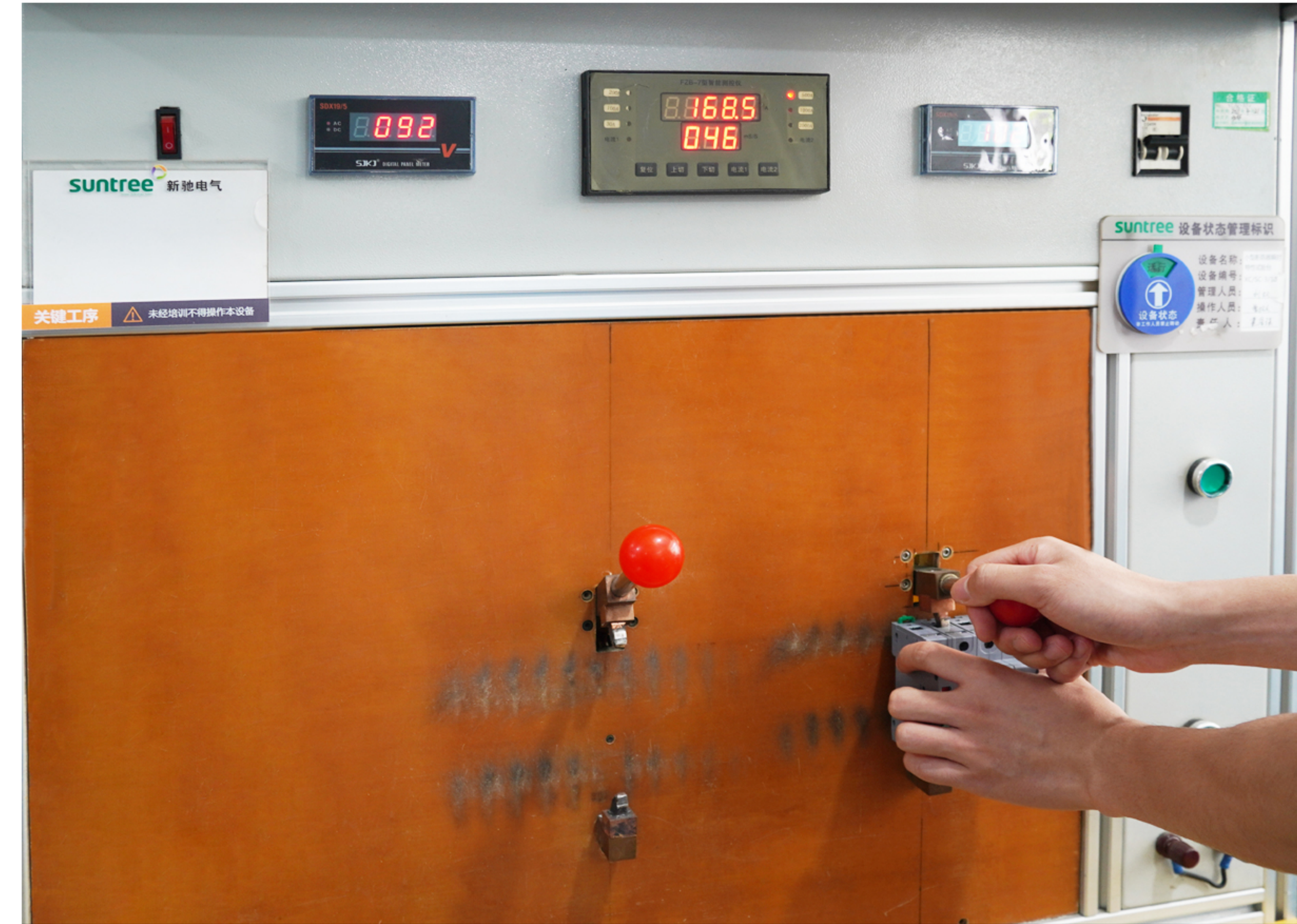
Test the usage rate of handle spring.

Under the condition of no electricity, the handle can be opened and closed for **10000** times.



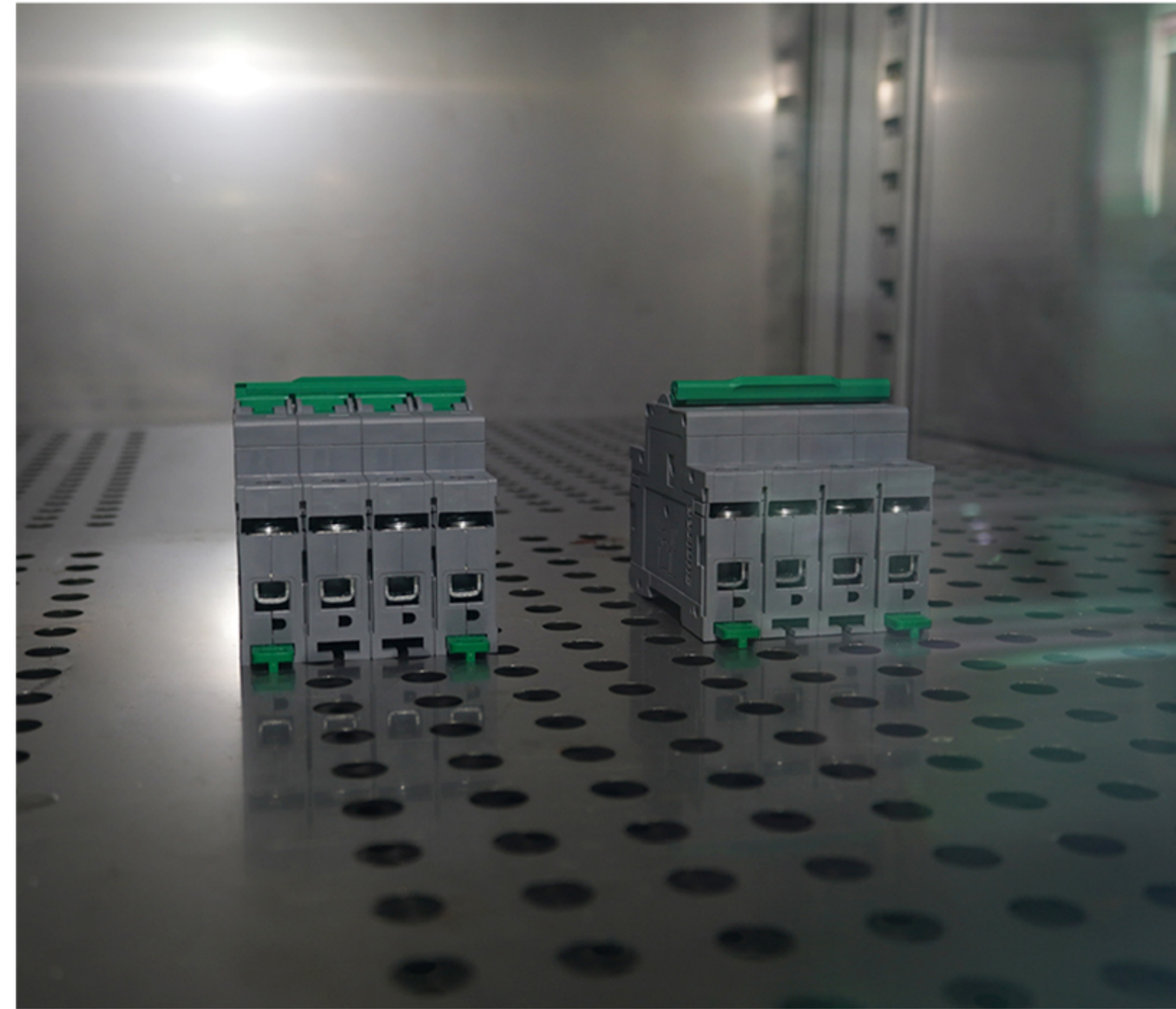
LONG TIME DELAY EXPERIMENT

The purpose is to debug the position of double gold.



SHORT TIME DELAY EXPERIMENT

Detection magnetic protection and overload protection.
Trip when it reaches between 130A and 190A.



Place in the test chamber for 48 hours.
High temperature **80°C**, humidity 95%. Low temperature **-40°C**.
Simulate whether the extreme environment affects the product.



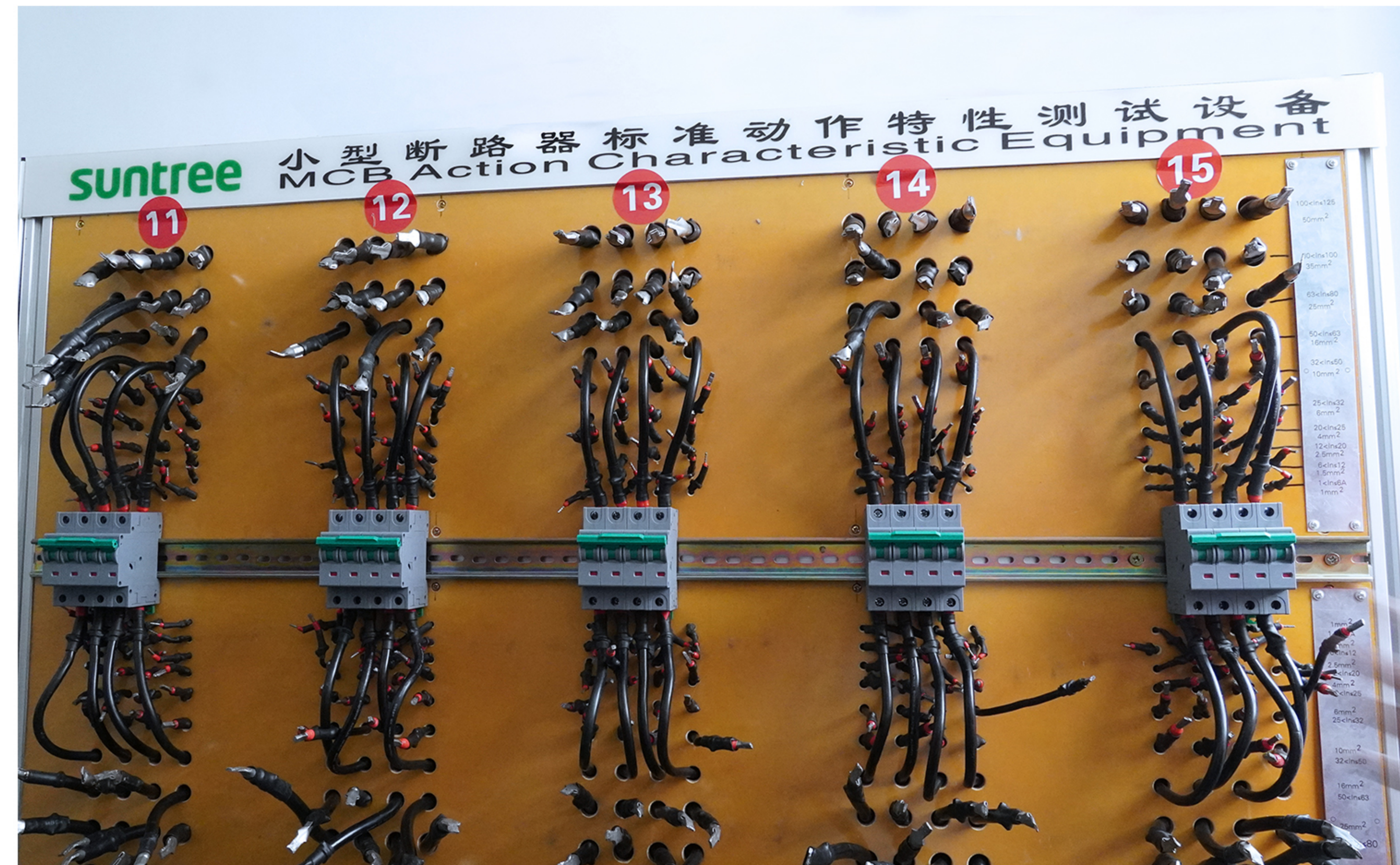
Shockproof

Anti-fall

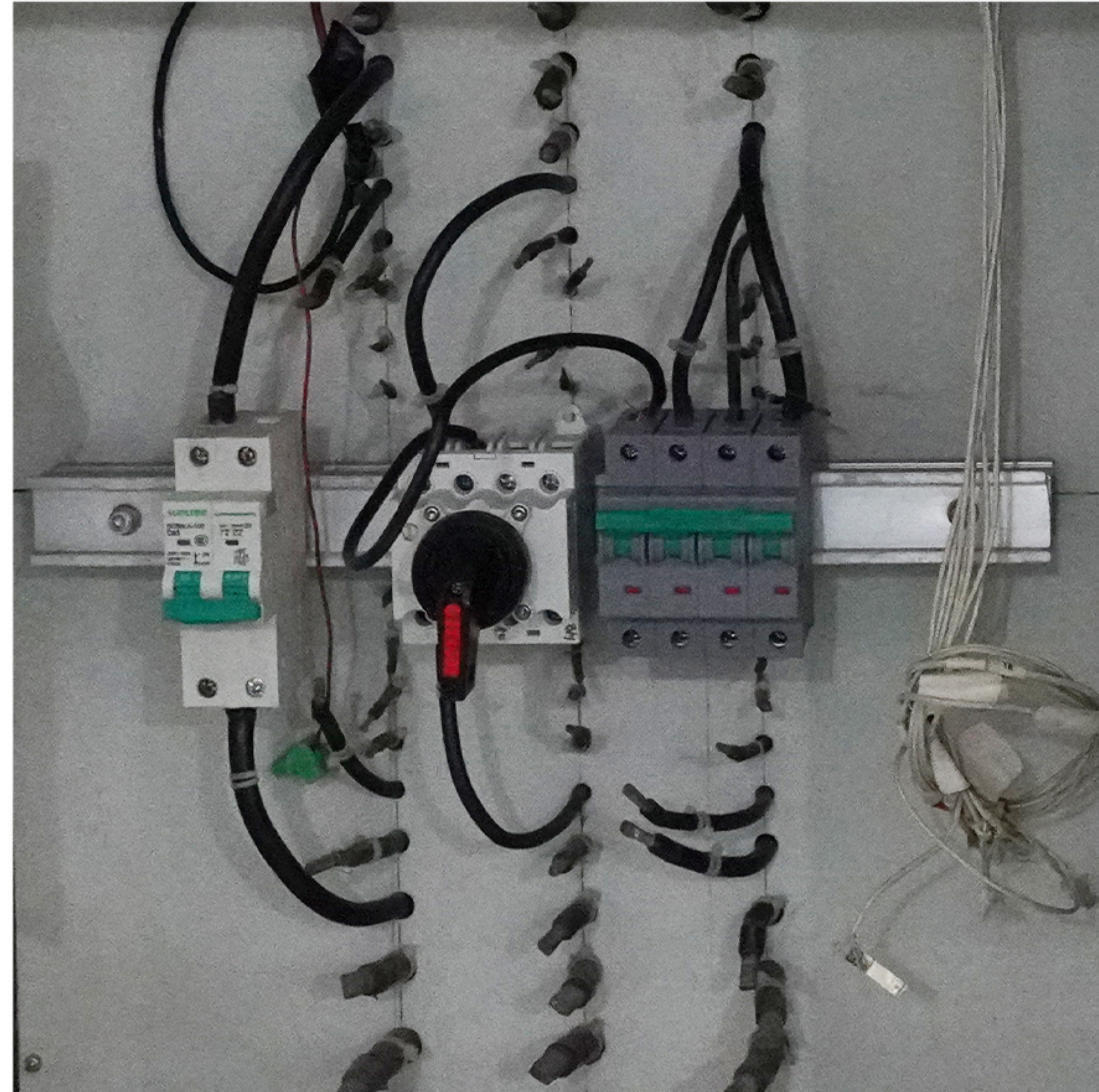
Prevent product damage in transit.



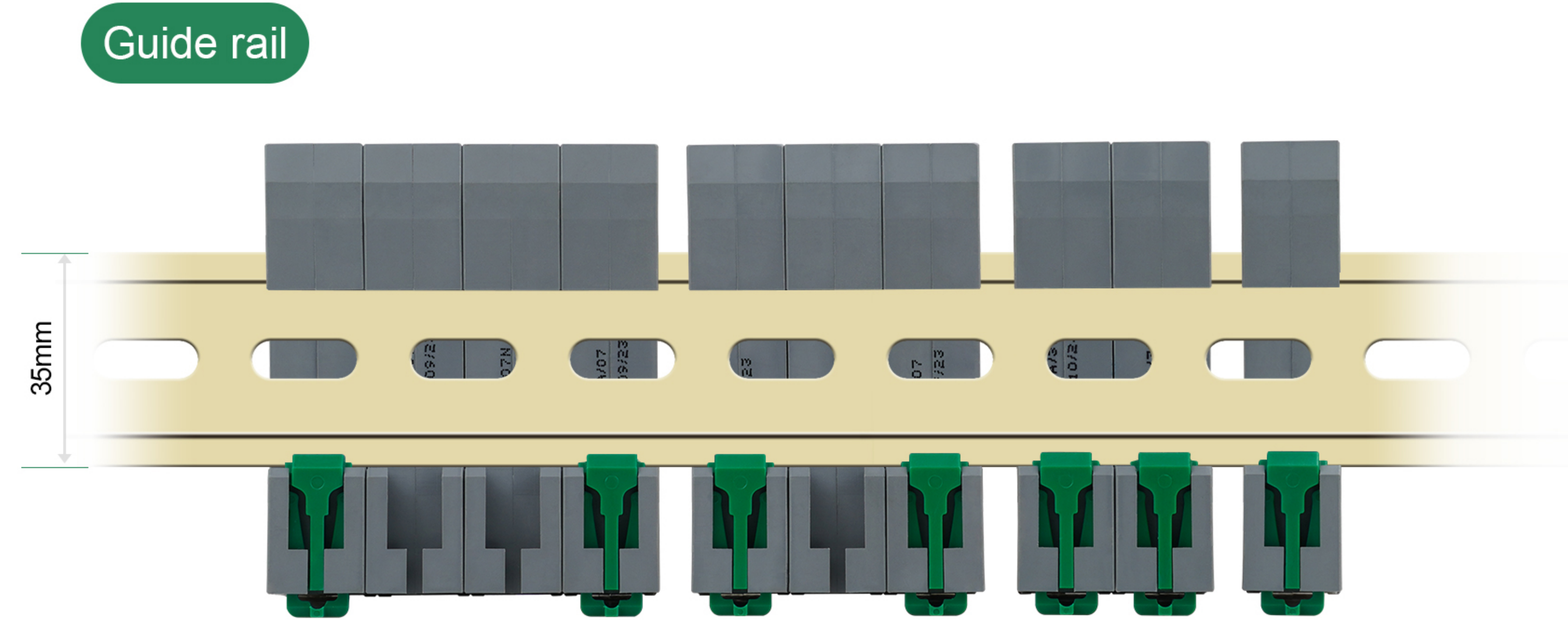
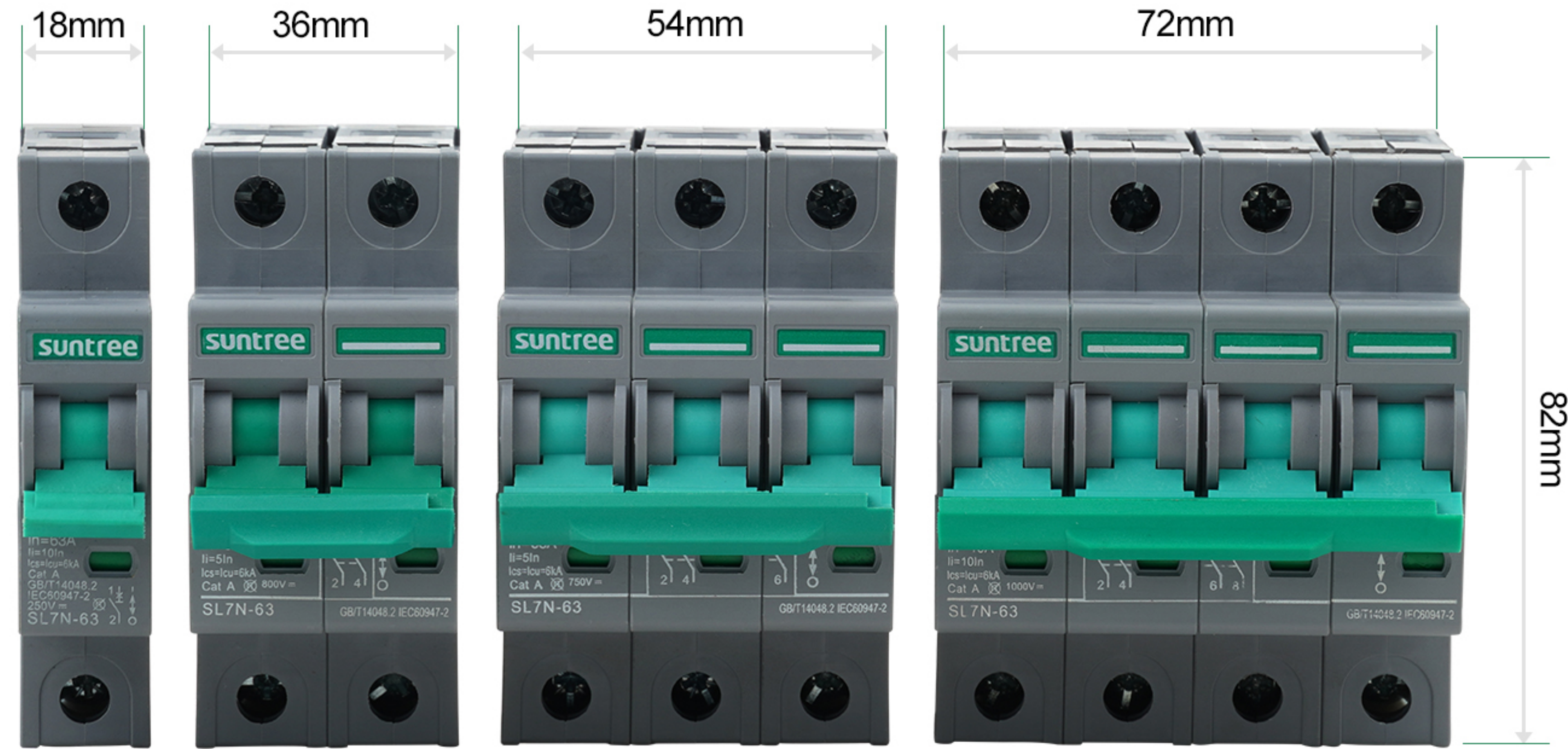
Temperature rise experiment is an important test to ensure the safety and stability of products! The environment requires 10 to 40 degrees. The terminal temperature minus ambient temperature should be less than 80K.



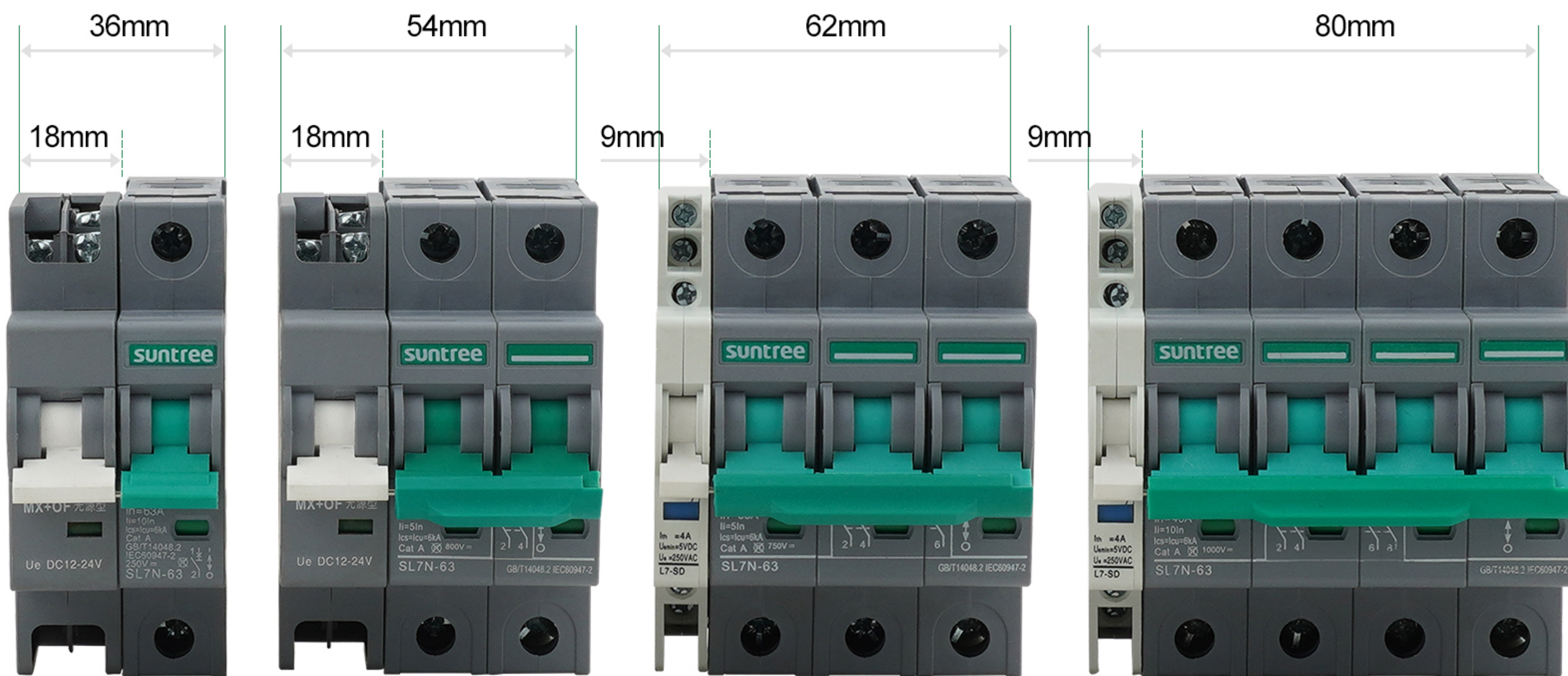
The standard long time characteristic test mainly tests overload. The switch can not be disconnected within 1 hour when it is less than 1.05 times 63A, and it should be disconnected within 1 hour when it is less than 1.3 times 63A.



The reliability of long-term operation of circuit breaker is verified by practical test.



MX/OF





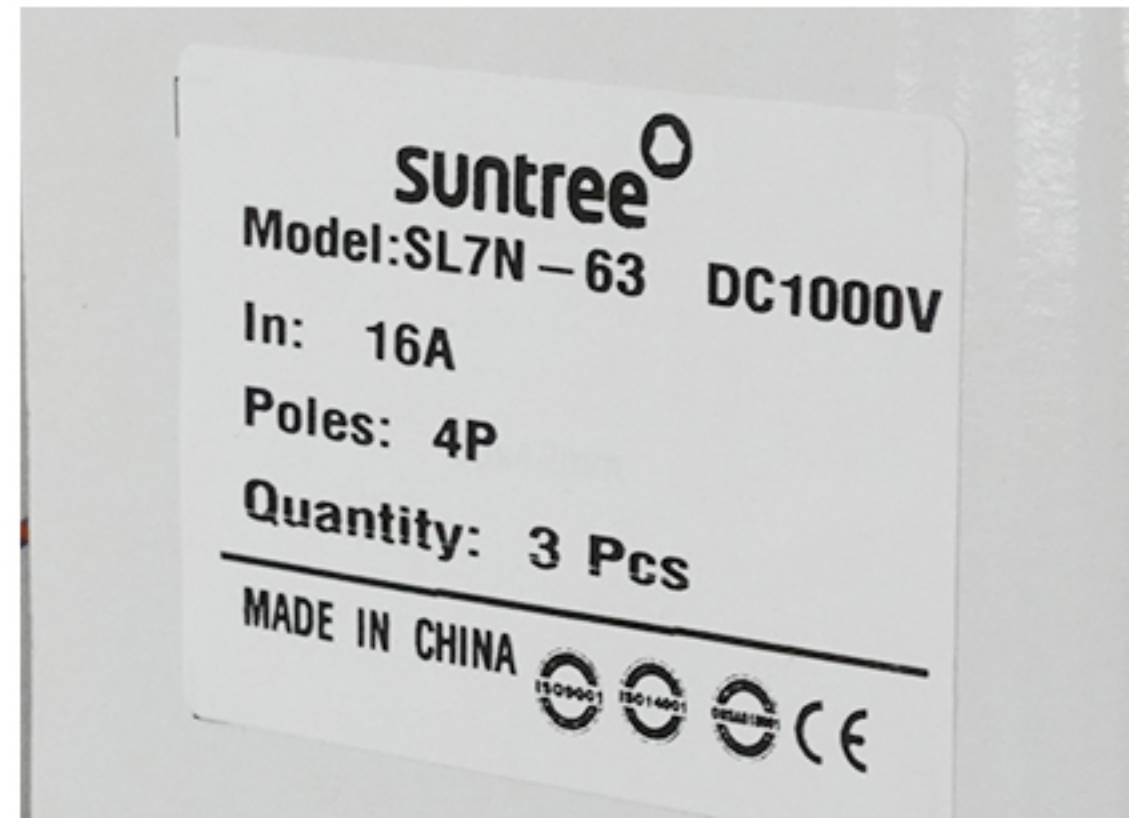
WEIGHT REFERENCE

Product model	SL7N-63			
Phase (Pole)	1P	2P	3P	4P
Electric current	63A			
N.W./pcs	0.12Kg	0.24Kg	0.36Kg	0.48Kg
G.W./box	1.46Kg	1.46Kg	1.46Kg	1.48Kg
QTY of inner box	12	6	4	3
Weight of one Carton	15Kg	15Kg	15Kg	15.26Kg

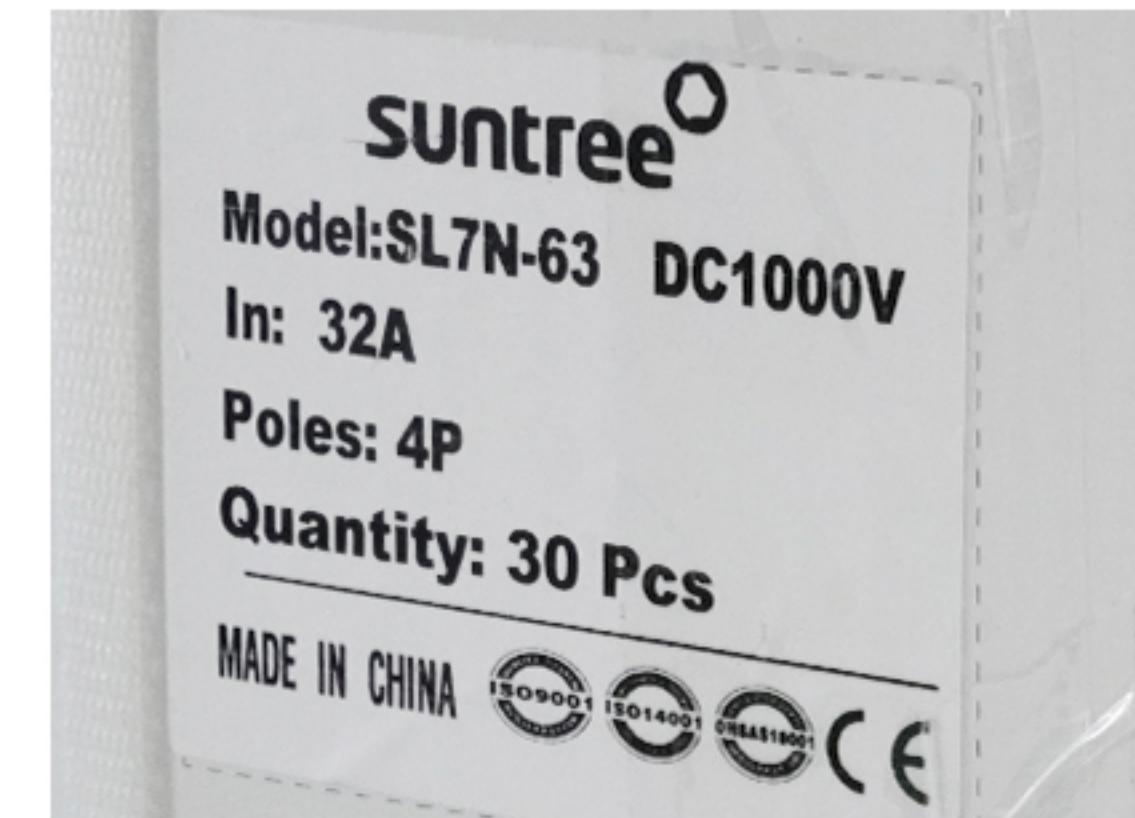
Different current, different product weight, this parameter is for reference only.



Inner box sticker



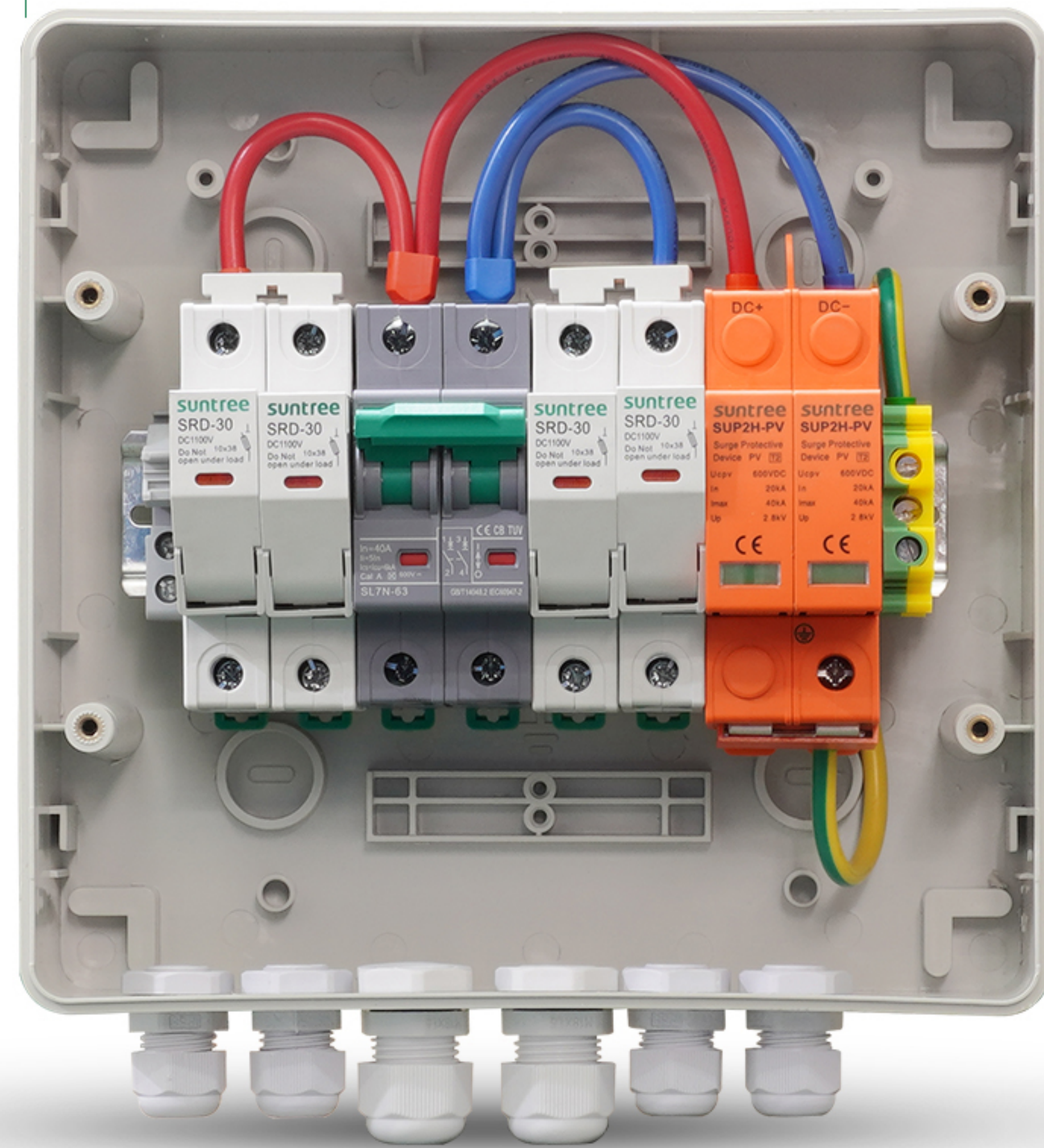
Outer box sticker



When the product is put into storage, it is convenient to count the quantity and distinguish the specifications, and effectively improving the work efficiency.

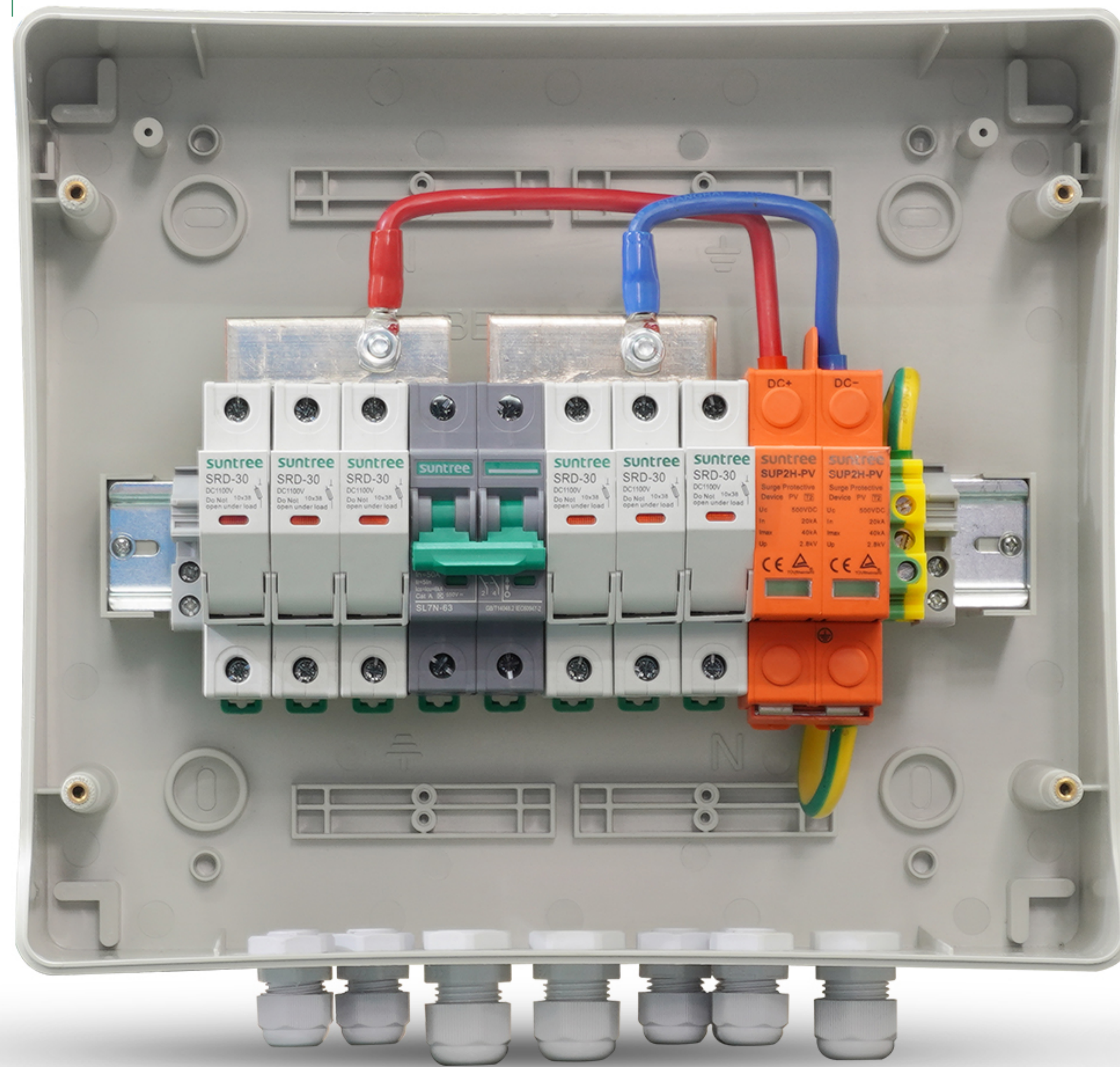


DC COMBINER BOX
TWO IN AND ONE OUT



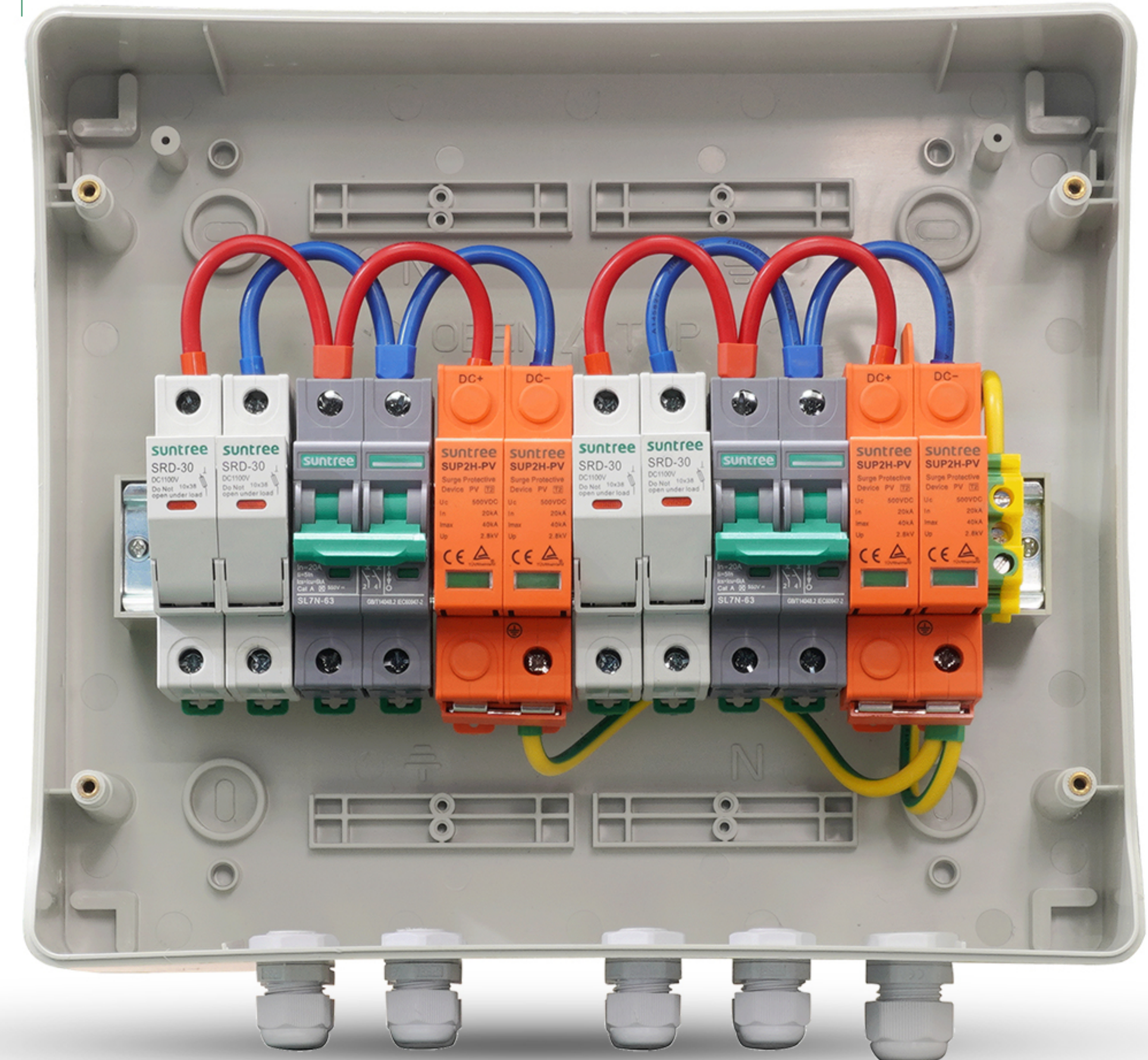
FOUR DC FUSE + ONE DC MCB + ONE DC SPD

DC COMBINER BOX
THREE IN AND ONE OUT



SIX DC FUSE + ONE DC MCB + ONE DC SPD

DC COMBINER BOX
TWO IN TWO OUT



FOUR DC FUSE + TWO DC MCB + TWO DC SPD

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