KUANGYA

Product Selection Manual

Innovative Protection Solutions for Electrical Systems

Safety comes From innovation

Wenzhou Kuangya Technology Co., Ltd.

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Kuangya Technology
Co., Ltd.

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Innovative Protection Solutions for Electrical Systems

With the rapid development of science and technology, the electrical system is the core support for the operation of various industries, and its stability and safety are crucial.
We focus on exploring and implementing innovative protection solutions to build all-round and multi-level protection for electrical systems, reduce the failure rate, improve system reliability and operation efficiency, and ensure the sustainable development of various industries.

Kuangya Technology

Safety comes **From innovation**

20

Years Of Manufacturing Experience

Wenzhou Kuangya Technology Co., Ltd. is a high-tech enterprise specializing in the R&D, production, and sales of premium electrical protection devices. As an innovation-driven manufacturer, we are committed to developing cutting-edge solutions for surge protection and low voltage AC / DC circuit safety applications With more than 20 years' manufacturing experience and Sales experience.

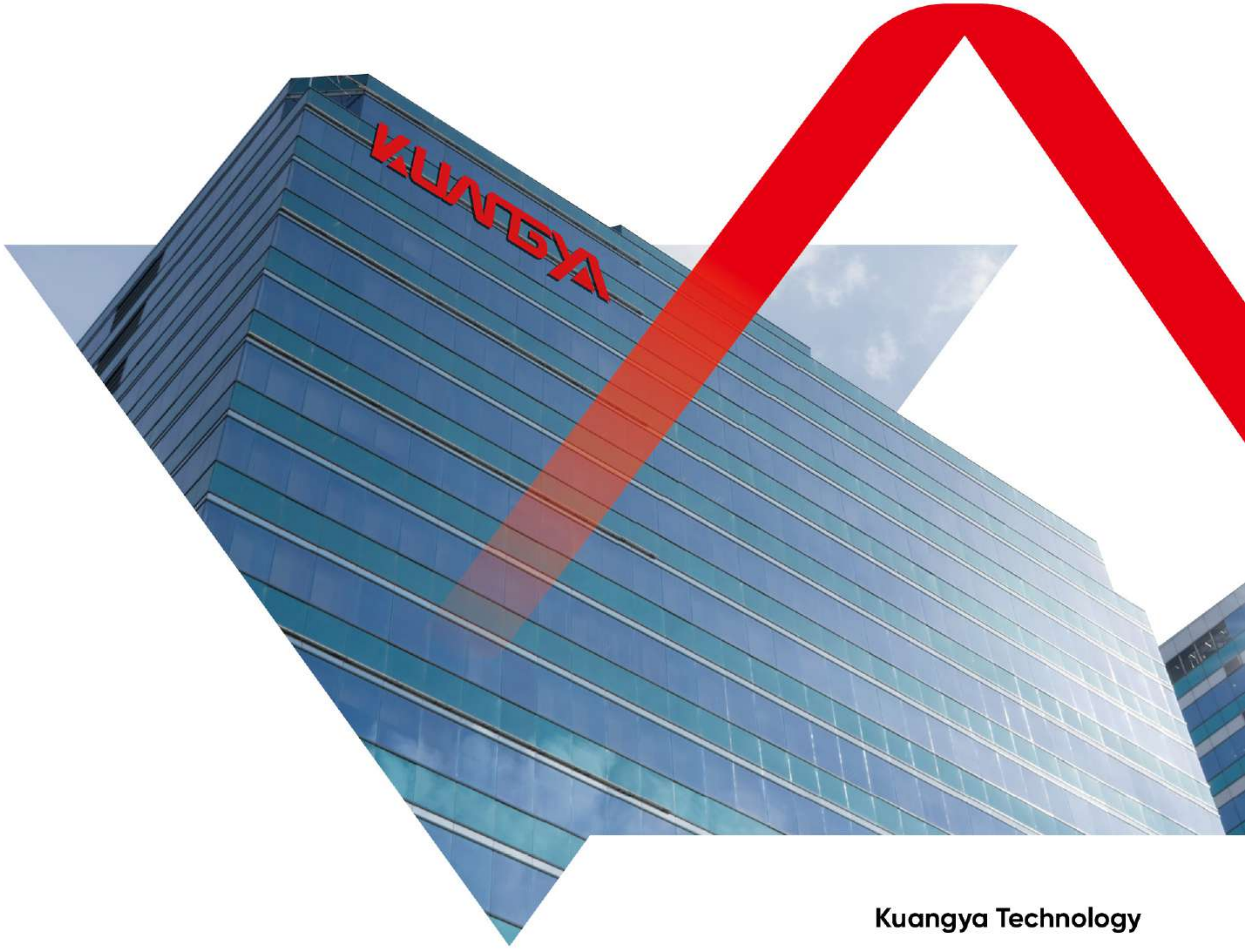
Company Profile

Core Products

- **AC/DC Surge Protection Devices (SPD):** Comprehensive protection solutions for both alternating current and direct current systems against lightning strikes and voltage transients
- Residual Current Circuit Breakers (RCCB), Residual Current Circuit Breaker with Overload Protection (RCBO), Arc Faulty Detection Device(AFDD), Miniature Circuit Breakers (MCB AC&DC), Molded Case Circuit Breakers (MCCB AC&DC)
- Solar PV System protection products, Consumer Units, and Pilot Lamps, catering to both residential and industrial clients.
- **High-Performance Fuses:** Reliable circuit protection components with precise breaking capacity

Technological Advantages

- **Independent Innovation:**Our in-house R&D team holds multiple patents and continuously develops next-generation protection technologies
- **Quality Assurance:**Full compliance with international standards including IEC, CB, SEMIKO and CE UKCA SAA NF ISI BIS certifications
- **Customized Solutions:**Tailored product development for special applications across industrial, commercial, and residential sectors
- Our Kuangya Technology serves clients in over 30 countries worldwide. Our "Safety Through Innovation" philosophy drives us to deliver superior electrical protection for the global market.



Contact us to safeguard your electrical systems with intelligent protection solutions!

Kuangya Technology

Qualification Empowers, **Quality Leads**

KYSPD-II OBO 01-03
Series Surge Protectors

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Innovative Protection Solutions for Electrical Systems

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KYSPD-II OBO

Series Surge Protectors

Product overview

The KYSPD-II series surge protector (SPD) is suitable for IT, TT, TN-C, TN-S, TN-C-S and other power supply systems of low-voltage AC 50/60Hz, 420V and below.

When the power grid line is affected by indirect lightning, direct lightning, or other instantaneous overvoltages, SPD achieves low resistance conduction within nanoseconds, releases transient energy to the ground, and limits the voltage to a certain protection level. When the transient overvoltage disappears, SPD returns to high resistance state without affecting the normal operation of the power grid.

Main structure and working principle

SPD is equipped with a built-in failure release device. When SPD fails due to overheating or breakdown due to faults, the release device can automatically disconnect it from the power grid and provide an indicator signal.

When SPD is working normally, the visual window displays green, and after failure release, it displays red. At this time, the protection module must be replaced immediately, and can be replaced quickly without power outage. A universal base with a protection module or zero ground protection module can be conveniently combined into 1P, 2P, 3P The 4P protection module is plug-in and replaceable.

Install

Installed at the junction of LPZ1 or LPZ2 area and LPZ3 area, using a 35mm standard guide rail, connecting copper multi stranded wires with a size of 2.5-35mm². The grounding wire should use a dual color wire of 4mm² or more, with a total length controlled within 0.5 meters. The shorter the wire length, the better.

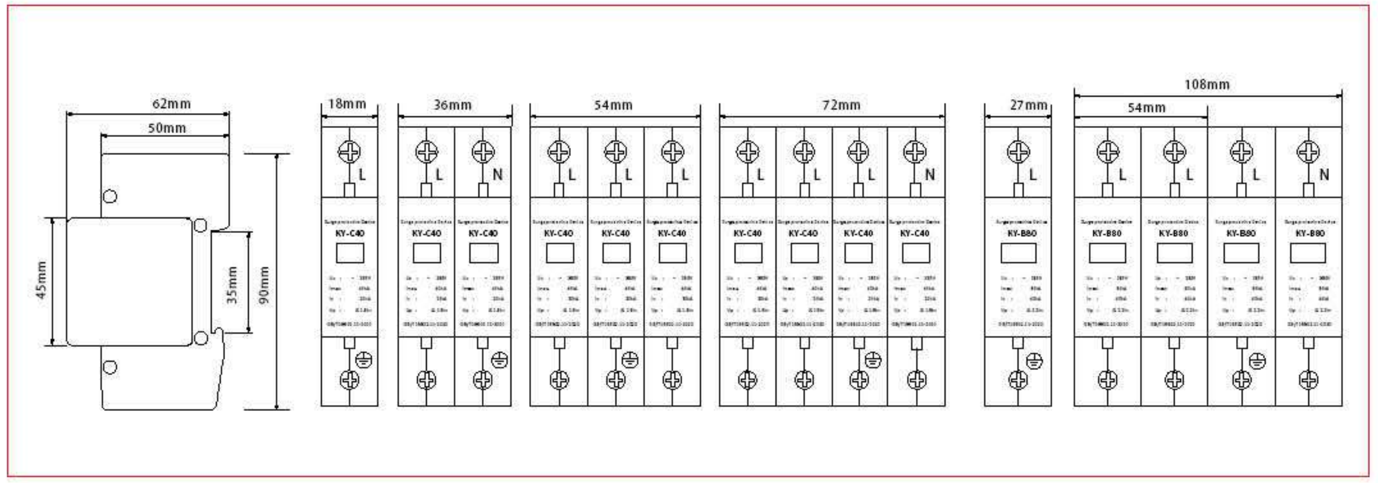
To prevent SPD failure from affecting the normal operation of the power grid, a matching SCB backup protector or fuse/circuit breaker must be connected in series at the front end of SPD for short circuit protection after SPD breakdown.

SPD is suitable for household distribution boxes, computer equipment, and information equipment. The front or nearest socket box of the electronic control equipment.

Main technical parameters

Model specifications	KYSPD-10	KYSPD-20	KYSPD-40	KYSPD-60	KY-B80	KY-B100
Maximum continuous working voltage Uc (VAC)	275 、385V 、420V					
Voltage protection level Up (kV)	1.2	1.5	1.8	2.0	2.2	2.4
Maximum discharge current Imax (8/20 μ s) (kA)	10	20	40	60	80	100
Nominal discharge current In(8/20 μ s) (kA)	5	10	20	30	40	60
Response time ns	< 25ns					
Protection grade	IP 20					
Ambient temperature	-40℃ - 85℃					
Failure indication	Aging failure: green normal, red failure					
Test level	Secondary protection for incoming lines, flame retardant nylon					
Remote signaling function	Can be dispensed separately					
Notes	Other maximum continuous working voltage Uc can be customized					

Appearance and installation wiring dimensions (mm)



KYSPD-II

series surge protectors

Overview

The KYSPD-II series surge protector (SPD) is suitable for IT, TT, TN-C, TN-S, TN-C-S, and other power supply systems of low-voltage AC 50/60Hz, 420V and below. It protects against indirect lightning, direct lightning effects, or other transient overvoltage surges.

Install

Installed at the junction of LPZ1 or LPZ2 area and LPZ3 area, using a 35mm standard guide rail, connecting copper multi stranded wires with a size of 2.5-35mm2. The grounding wire should use a dual color wire of at least 10mm2, with a total length controlled within 0.5 meters. The shorter the wire length, the better.

To prevent SPD failure from affecting the normal operation of the power grid, a matching SCB backup protector or fuse/circuit breaker must be connected in series at the front end of SPD for short circuit protection after SPD breakdown.

Installed in floor distribution boxes, computer centers, telecommunications rooms, elevator control rooms, cable TV rooms, fire centers, villas, residential distribution boxes, etc.

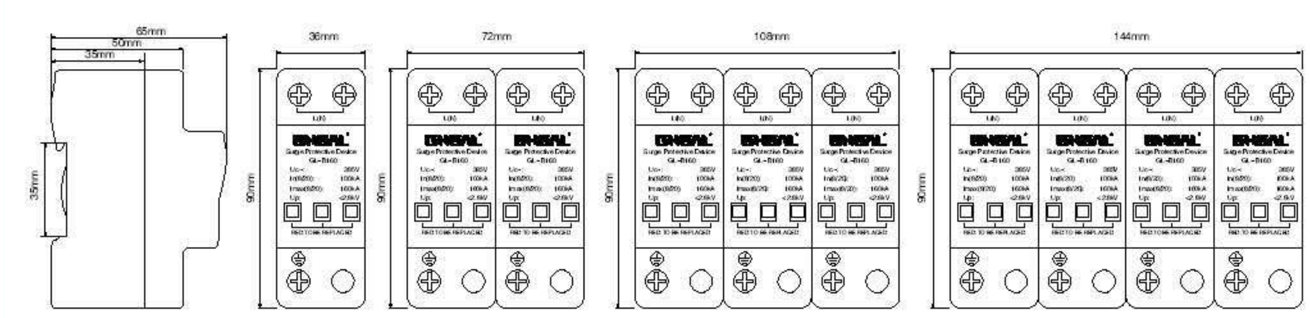
Main structure and working principle

Under normal circumstances, the surge protector is in a high resistance state. When the power grid line is affected by indirect lightning, direct lightning, or other instantaneous overvoltages, the SPD achieves low resistance conduction within nanoseconds, releasing transient energy to the ground and limiting the voltage to a certain protection level. When the transient overvoltage disappears, the SPD returns to a high resistance state, thus not affecting the normal operation of the power grid.

Main technical parameters

Model specifications	KY-B100	KY-B120	KY-B160	KY-B200
Maximum continuous working voltage Uc (VAC)	275 、385V 、420V			
Voltage protection level Up (kV)	2.4	2.5	2.8	3.2
Maximum discharge current Imax (8/20 μ s) (kA)	100	120	160	200
Nominal discharge current In(8/20 μ s) (kA)	60	80	100	120
Response time ns	< 25ns			
Protection grade	IP 20			
Ambient temperature	-40°C - 85°C			
Failure indication	Aging failure: green normal, red failure			
Test level	Secondary protection for incoming lines, flame retardant nylon			
Remote signaling function	Can be dispensed separately			
Notes	Other maximum continuous working voltage Uc can be customized			

Appearance and installation wiring dimensions (mm)



KYSPD-I

series surge protector

Overview

The KY-A T1 level surge protector has high lightning discharge capacity, no leakage current, no freewheeling current, modular installation, high safety factor, and long service life. It adopts a 35mm standard guide rail installation method and is installed in the building's main distribution cabinet (box) and outdoor distribution cabinet (box).

Install

The product is installed at the junction of LPZOA or LPZOB and LPZ1 area, or at the main distribution box (cabinet) where the power supply is introduced, using 35mm standard guide rails and connecting wires using 6-35mm^2 multi stranded copper flexible wires.

The grounding wire should use a dual color wire of at least 10mm^2, with a total length controlled within 0.5m.

In order to prevent the failure of surge protectors from affecting the normal operation of the power grid, the protectors connected to the L line should be connected in series with a matching SCB backup protector or fuse/circuit breaker for short circuit protection after SPD breakdown.

The altitude does not exceed 2000 meters, and there is no impact vibration or shaking in the area.

The relative humidity shall not exceed 90% (25 °C).

All lightning protection devices must be effectively grounded.

Main structure and working principle

KY-A series gap type surge protector (belonging to Class I lightning arrester, 10/350) μ The waveform is designed according to IEC and GB standards.

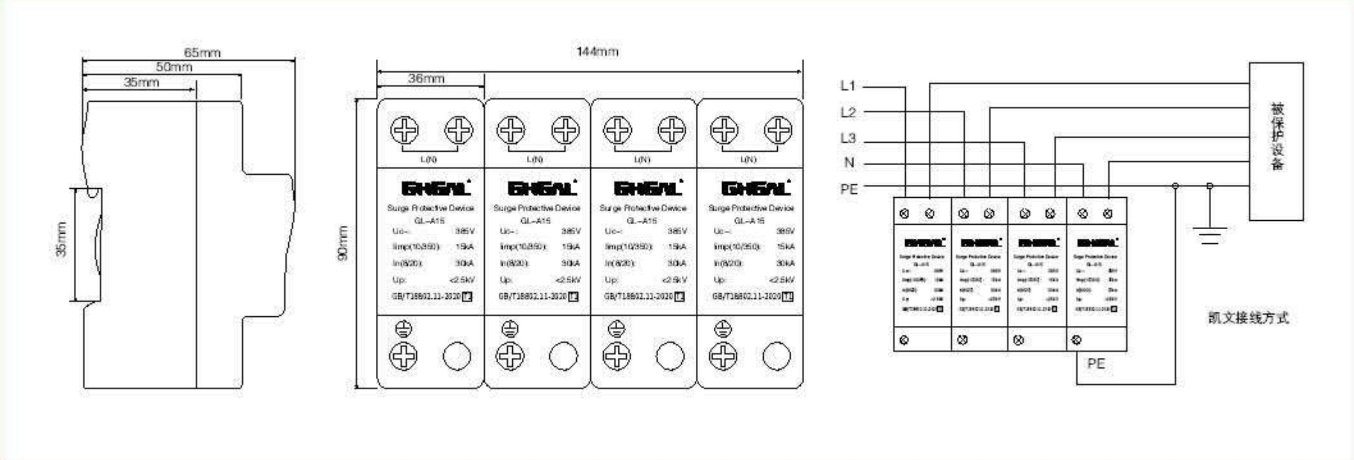
The first level surge protection applied to equipment systems in areas with high lightning risk can prevent various surges, including direct lightning strikes, and can be combined for use in single-phase and three-phase power supply lines.

The maximum impulse current of a single module can reach limp: 12.5KA, limp: 25KA, limp: 35KA, and limp: 50KA, respectively.

Main technical parameters

Model specifications	KY-A12.5	KY-A15	KY-A25	KY-A50
Maximum continuous working voltage Uc (VAC)	275 、385V 、420V			
Voltage protection level Up (kV)	2.5	2.5	2.5	2.5
Maximum discharge current limp (10/350 μ s) (kA)	12.5kA	15kA	25kA	50kA
Nominal discharge current In(8/20 μ s) (kA)	25	30	50	100
Response time ns	＜25ns	＜100ns		
Protection grade	IP 20			
Ambient temperature	-40°C - 85°C			
Test level	First level protection, flame retardant nylon			
Remote signaling function	Can be dispensed separately			
Notes	Other maximum continuous working voltage Uc can be customized			

Appearance and installation wiring dimensions (mm)



KYSCB

Backup protector

Overview

According to GB18802.1, GB50057, and Q/THQB001-2013 standards, the front end of the SPD circuit must be connected in series with a surge protector. The manufacturer requires the installation of an overcurrent protector. Due to the lack of coordination between the fuse and circuit breaker and the SPD, a fire may occur when the power supply is abnormal or the SPD deteriorates and fails.

Main structure and working principle

SCB can selectively segment the passing power frequency current and lightning current, effectively protecting SPD from melting and short circuiting in case of abnormal transient overvoltage due to degradation, causing serious fire accidents.

The SPD professional external release is connected in series on the SPD circuit, using an internal current sorting channel device to achieve fast break of low frequency current and non release of high current lightning impulse, achieving fire protection of low frequency current SPD and continuous and effective lightning protection of equipment.

SCB products are only suitable for SPD circuit overcurrent protection.

Install

The residual voltage of the impulse current is low, and the testing performance is better than that of the air switch and fuse;

High energy contacts solve the problem of product lifespan;

Micro broken shape, small size, convenient for power outage and SPD incoming line detection;

The product can be used in conjunction with three types of SPD: T1, T2, and T3;

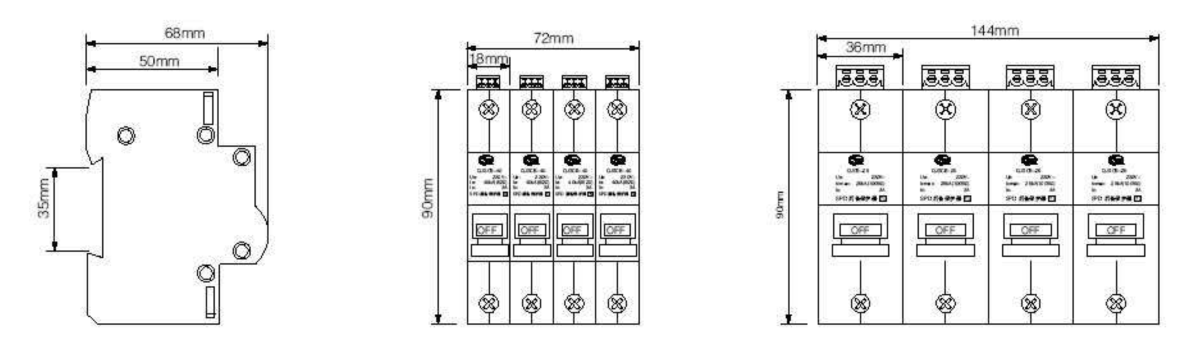
Remote control alarm can be selected;

Installation using 35mm standard guide rail;

Main technical parameters

Model specifications	KY-SCB-12.5	KY-SCB-15	KY-SCB-25	KY-SCB-20	KY-SCB-40	KY-SCB-60	KY-SCB-80	KY-SCB-100
Experimental category	T1	T1	T1	T2	T2	T2	T2	T2
Non tripping impulse current IE	≤12.5kA (10/350μs)	≤15kA (10/350μs)	≤25kA (10/350μs)	≤20kA (8/20μs)	≤40kA (8/20μs)	≤60kA (8/20μs)	≤80kA (8/20μs)	≤100kA (8/20μs)
Rated working voltage Ue	230VAc							
Rated insulation voltage Ui	400VAc							
Nominal discharge current In (8/20 μ s) (kA)				10kA	20kA	30kA	40kA	60kA
Current trip value Io	3A							
Rated short-circuit capacity Icn	50kA	50kA	50kA	15kA	25kA	35kA	35kA	45kA
Load current breaking time To	0.3s							
Mechanical life	⋀1000 次 ⋀1000 times							
Protection level	IP 20							
Remote signaling function	Can be allocated separately, normally open or normally closed (default to normally closed)							
Remote indication	Can install lof accessories							
The relationship between protective actions and the environment	-Unrelated within 25 °C -60 °C							
Storage environment	-40 °C -75 °C Relative humidity: ⋀ 95% (at 25 °C)							
Work environment	-40 °C -75 °C Relative humidity: ⋀ 95% (at 25 °C)							

Appearance and installation wiring dimensions (mm)



KYPV

Photovoltaic specific surge protector

Overview

The KYPV600V series surge protector is suitable for new energy wind and solar power generation systems. It is equipped with a remote signal interface and can achieve remote control. It is installed in the DC circuit main power supply system.

Install

The surge protector must be installed in parallel on the power line at the front end of the protected equipment and must be powered off for installation;

Suggest connecting fuses or circuit breakers in series at the front end of the lightning protection module;

When installing, please follow the links shown in the installation diagram, where+is the positive wire, - is the negative wire, and PE is the ground wire. Do not connect them incorrectly. After installation, close the circuit breaker (fuse) switch and check if the working status is normal;

After installation, insert the module into place and check if the anti collaboration module is working properly;

Using a 35mm standard guide rail for installation, the connecting wires should be firm and reliable, and should be short, thick, and straight;

Built in failure hot release mechanism, fault display, remote signal alarm function (optional), plug-in module design, easy maintenance;

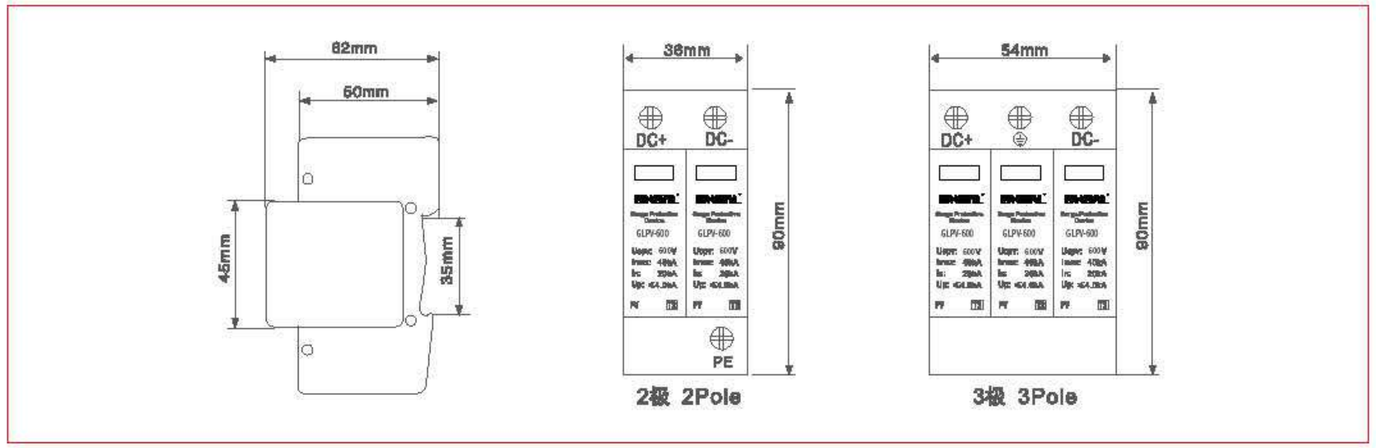
Main structure and working principle

The KYPV600V series is a plug-in structure. During the trial period, the lightning protection module should be regularly checked and the status of the fault display window should be checked. When the fault display window is red or the remote signal terminal outputs an alarm signal, it indicates that the lightning protection module has malfunctioned and should be repaired or replaced in a timely manner.

Main technical parameters

Name	KYD1-PV690V	KYD1-PV1000V	KYD1-PV1200V	KYD1-PV1500V
Maximum continuous operating voltage (VDC)	690VDC	1000VDC	1200VDC	1500VDC
Rated working voltage (VDC)	570VDC	880VDC	1000VDC	1250VDC
Maximum discharge current (Imax) (8/20us)	40kA			
Nominal discharge current In (8/20 μ s) (kA)	20kA			
Protection level Up ≤ (kV)	≤3.2kV	≤3.8kV	≤4.5kV	≤5.0kV
Response Time (ns)	25ns			
Working Temperature (℃)	-40℃ -+85℃			
Remote signaling function	Can be allocated separately			
Scope of use	DC surge			
Window indication	When normal: green; When ineffective: red			
Protection level	IP 20			
Number of poles	2P、3P			
Notes	Uc can be customized for SPD ranging from 48V to 1500V			

Appearance and installation wiring dimensions (mm)



KY-C40

Product Selection Guide

Model Meaning

KY - C - 40

- Maximum Discharge Current
- Surge Protector
- Enterprise code

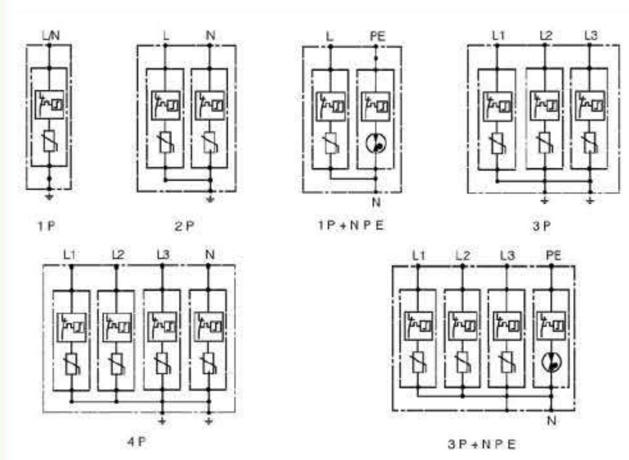
SPD Type Reference List

No.of Poles	Max.Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	AU7-T2-20-1P150	AU7-T2-20-1P275	AU7-T2-20-1P320	AU7-T2-20-1P385	AU7-T2-20-1P440
2P	AU7-T2-20-2P150	AU7-T2-20-2P275	AU7-T2-20-2P320	AU7-T2-20-2P385	AU7-T2-20-2P440
3P	AU7-T2-20-3P150	AU7-T2-20-3P275	AU7-T2-20-3P320	AU7-T2-20-3P385	AU7-T2-20-3P440
4P	AU7-T2-20-4P150	AU7-T2-20-4P275	AU7-T2-20-4P320	AU7-T2-20-4P385	AU7-T2-20-4P440
1P+NPE	AU7-T2-20-1PN150	AU7-T2-20-1PN275	AU7-T2-20-1PN320	AU7-T2-20-1PN385	AU7-T2-20-1PN440
3P+NPE	AU7-T2-20-3PN150	AU7-T2-20-3PN275	AU7-T2-20-3PN320	AU7-T2-20-3PN385	AU7-T2-20-3PN440
With Remote SigWith Remote Signalingnaling					
1P	AU7-T2-20-1P150S	AU7-T2-20-1P275S	AU7-T2-20-1P320S	AU7-T2-20-1P385S	AU7-T2-20-1P440S
2P	AU7-T2-20-2P150S	AU7-T2-20-2P275S	AU7-T2-20-2P320S	AU7-T2-20-2P385S	AU7-T2-20-2P440S
3P	AU7-T2-20-3P150S	AU7-T2-20-3P275S	AU7-T2-20-3P320S	AU7-T2-20-3P385S	AU7-T2-20-3P440S
4P	AU7-T2-20-4P150S	AU7-T2-20-4P275S	AU7-T2-20-4P320S	AU7-T2-20-4P385S	AU7-T2-20-4P440S
1P+NPE	AU7-T2-20-1PN150S	AU7-T2-20-1PN275S	AU7-T2-20-1PN320S	AU7-T2-20-1PN385S	AU7-T2-20-1PN440S
3P+NPE	AU7-T2-20-3PN150S	AU7-T2-20-3PN275S	AU7-T2-20-3PN320S	AU7-T2-20-3PN385S	AU7-T2-20-3PN440S

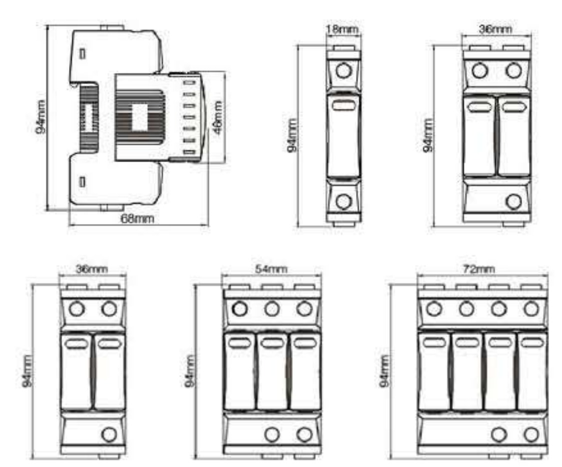
Technical Data

SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max.continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max.continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current(8/20 μs)	In	10kA	10kA	10kA	10kA	10kA
Maximum discharge current(8/20 μs)	Imax	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max.backup fuse		125A gL				
Response time	tA	≤25ns				
Response time	tA(N-PE)	≤100ns				
Operating temperature range	Tu	-40℃ ~80℃				
Operating State/Fault Indication		Green/Red				
Cross-section area(Min.)		4mm²				
Cross-section area(Max.)		2 35mm				
For mounting on		35mm Din rail				
Enclosure material		Thermal Plastic UL94-V0				
Degree of Protection		IP20				
No.of Poles		1P,2P,3P,4P,1P+NPE,3P+NPE				

Basic circuit diagram



Overall and Installation Dimension(mm)



KY-C40

Product Selection Guide

Model Meaning

KY - C - 40

- 40 — Maximum Discharge Current
- C — Surge Protector
- KY — Enterprise code

KUANGYA

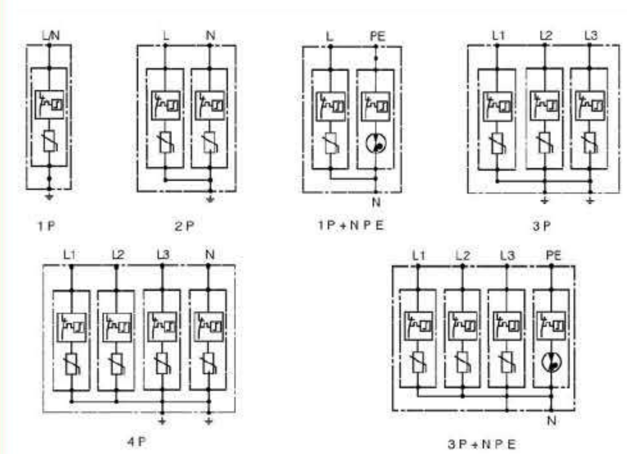
SPD Type Reference List

No.of Poles	Max.Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	AU7-T2-20-1P150	AU7-T2-20-1P275	AU7-T2-20-1P320	AU7-T2-20-1P385	AU7-T2-20-1P440
2P	AU7-T2-20-2P150	AU7-T2-20-2P275	AU7-T2-20-2P320	AU7-T2-20-2P385	AU7-T2-20-2P440
3P	AU7-T2-20-3P150	AU7-T2-20-3P275	AU7-T2-20-3P320	AU7-T2-20-3P385	AU7-T2-20-3P440
4P	AU7-T2-20-4P150	AU7-T2-20-4P275	AU7-T2-20-4P320	AU7-T2-20-4P385	AU7-T2-20-4P440
1P+NPE	AU7-T2-20-1PN150	AU7-T2-20-1PN275	AU7-T2-20-1PN320	AU7-T2-20-1PN385	AU7-T2-20-1PN440
3P+NPE	AU7-T2-20-3PN150	AU7-T2-20-3PN275	AU7-T2-20-3PN320	AU7-T2-20-3PN385	AU7-T2-20-3PN440
With Remote SigWith Remote Signalingnaling					
1P	AU7-T2-20-1P150S	AU7-T2-20-1P275S	AU7-T2-20-1P320S	AU7-T2-20-1P385S	AU7-T2-20-1P440S
2P	AU7-T2-20-2P150S	AU7-T2-20-2P275S	AU7-T2-20-2P320S	AU7-T2-20-2P385S	AU7-T2-20-2P440S
3P	AU7-T2-20-3P150S	AU7-T2-20-3P275S	AU7-T2-20-3P320S	AU7-T2-20-3P385S	AU7-T2-20-3P440S
4P	AU7-T2-20-4P150S	AU7-T2-20-4P275S	AU7-T2-20-4P320S	AU7-T2-20-4P385S	AU7-T2-20-4P440S
1P+NPE	AU7-T2-20-1PN150S	AU7-T2-20-1PN275S	AU7-T2-20-1PN320S	AU7-T2-20-1PN385S	AU7-T2-20-1PN440S
3P+NPE	AU7-T2-20-3PN150S	AU7-T2-20-3PN275S	AU7-T2-20-3PN320S	AU7-T2-20-3PN385S	AU7-T2-20-3PN440S

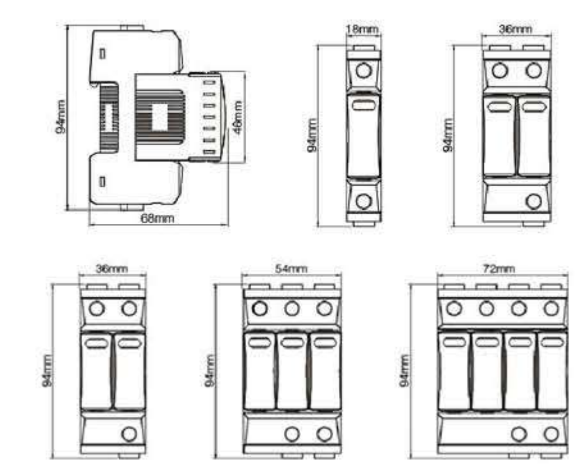
Technical Data

SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max.continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max.continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current(8/20 μs)	In	10kA	10kA	10kA	10kA	10kA
Maximum discharge current(8/20 μs)	Imax	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max.backup fuse		125A gL				
Response time	tA	≤25ns				
Response time	tA(N-PE)	≤100ns				
Operating temperature range	Tu	-40℃ ~80℃				
Operating State/Fault Indication		Green/Red				
Cross-section area(Min.)		4mm²				
Cross-section area(Max.)		2 35mm				
For mounting on		35mm Din rail				
Enclosure material		Thermal Plastic UL94-V0				
Degree of Protection		IP20				
No.of Poles		1P,2P,3P,4P,1P+NPE,3P+NPE				

Basic circuit diagram



Overall and Installation Dimension(mm)



KY-B + C/7

Product Selection Guide

Model Meaning

KY - B+C / 7

- 7 — Maximum Discharge Current
- B+C — Surge Protector
- KY — Enterprise code

KUANGYA

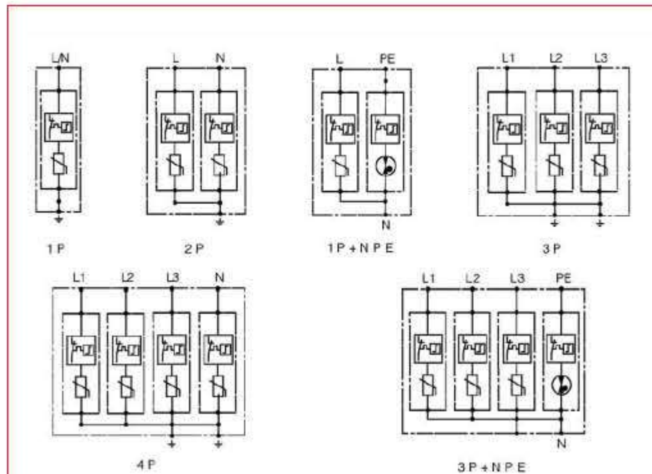
SPD Type Reference List

No.of Poles	Max.Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	AU7-T2-20-1P150	AU7-T2-20-1P275	AU7-T2-20-1P320	AU7-T2-20-1P385	AU7-T2-20-1P440
2P	AU7-T2-20-2P150	AU7-T2-20-2P275	AU7-T2-20-2P320	AU7-T2-20-2P385	AU7-T2-20-2P440
3P	AU7-T2-20-3P150	AU7-T2-20-3P275	AU7-T2-20-3P320	AU7-T2-20-3P385	AU7-T2-20-3P440
4P	AU7-T2-20-4P150	AU7-T2-20-4P275	AU7-T2-20-4P320	AU7-T2-20-4P385	AU7-T2-20-4P440
1P+NPE	AU7-T2-20-1PN150	AU7-T2-20-1PN275	AU7-T2-20-1PN320	AU7-T2-20-1PN385	AU7-T2-20-1PN440
3P+NPE	AU7-T2-20-3PN150	AU7-T2-20-3PN275	AU7-T2-20-3PN320	AU7-T2-20-3PN385	AU7-T2-20-3PN440
With Remote SigWith Remote Signalingnaling					
1P	AU7-T2-20-1P150S	AU7-T2-20-1P275S	AU7-T2-20-1P320S	AU7-T2-20-1P385S	AU7-T2-20-1P440S
2P	AU7-T2-20-2P150S	AU7-T2-20-2P275S	AU7-T2-20-2P320S	AU7-T2-20-2P385S	AU7-T2-20-2P440S
3P	AU7-T2-20-3P150S	AU7-T2-20-3P275S	AU7-T2-20-3P320S	AU7-T2-20-3P385S	AU7-T2-20-3P440S
4P	AU7-T2-20-4P150S	AU7-T2-20-4P275S	AU7-T2-20-4P320S	AU7-T2-20-4P385S	AU7-T2-20-4P440S
1P+NPE	AU7-T2-20-1PN150S	AU7-T2-20-1PN275S	AU7-T2-20-1PN320S	AU7-T2-20-1PN385S	AU7-T2-20-1PN440S
3P+NPE	AU7-T2-20-3PN150S	AU7-T2-20-3PN275S	AU7-T2-20-3PN320S	AU7-T2-20-3PN385S	AU7-T2-20-3PN440S

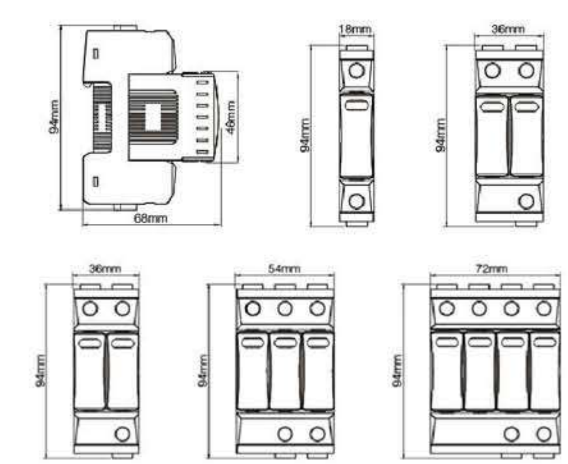
Technical Data

SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max.continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max.continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current(8/20 μs)	In	10kA	10kA	10kA	10kA	10kA
Maximum discharge current(8/20 μs)	Imax	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max.backup fuse				125A gL		
Response time	tA			≤25ns		
Response time	tA(N-PE)			≤100ns		
Operating temperature range	Tu			-40℃ ~80℃		
Operating State/Fault Indication				Green/Red		
Cross-section area(Min.)				4mm²		
Cross-section area(Max.)				2 35mm		
For mounting on				35mm Din rail		
Enclosure material				Thermal Plastic UL94-V0		
Degree of Protection				IP20		
No.of Poles				1P,2P,3P,4P,1P+NPE,3P+NPE		

Basic circuit diagram



Overall and Installation Dimension(mm)

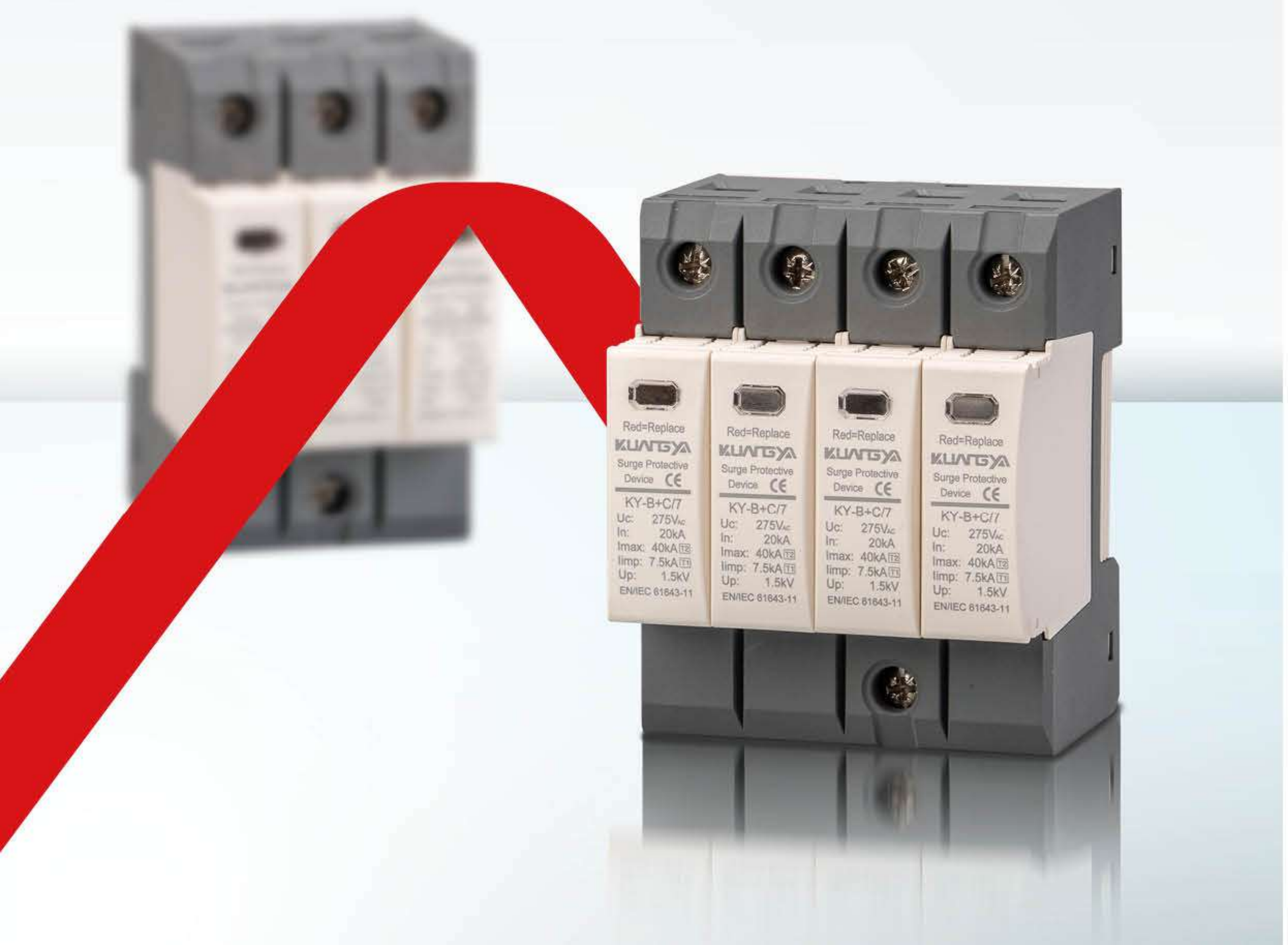


KY-B + C/7

Model Meaning

KY - B+C / 7

- 7 — Maximum Discharge Current
- B+C — Surge Protector
- KY — Enterprise code



KUANGYA

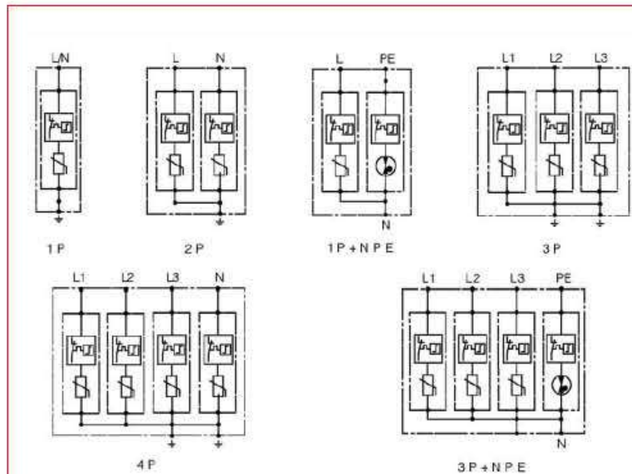
SPD Type Reference List

No.of Poles	Max.Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	AU7-T2-20-1P150	AU7-T2-20-1P275	AU7-T2-20-1P320	AU7-T2-20-1P385	AU7-T2-20-1P440
2P	AU7-T2-20-2P150	AU7-T2-20-2P275	AU7-T2-20-2P320	AU7-T2-20-2P385	AU7-T2-20-2P440
3P	AU7-T2-20-3P150	AU7-T2-20-3P275	AU7-T2-20-3P320	AU7-T2-20-3P385	AU7-T2-20-3P440
4P	AU7-T2-20-4P150	AU7-T2-20-4P275	AU7-T2-20-4P320	AU7-T2-20-4P385	AU7-T2-20-4P440
1P+NPE	AU7-T2-20-1PN150	AU7-T2-20-1PN275	AU7-T2-20-1PN320	AU7-T2-20-1PN385	AU7-T2-20-1PN440
3P+NPE	AU7-T2-20-3PN150	AU7-T2-20-3PN275	AU7-T2-20-3PN320	AU7-T2-20-3PN385	AU7-T2-20-3PN440
With Remote SigWith Remote Signalingnaling					
1P	AU7-T2-20-1P150S	AU7-T2-20-1P275S	AU7-T2-20-1P320S	AU7-T2-20-1P385S	AU7-T2-20-1P440S
2P	AU7-T2-20-2P150S	AU7-T2-20-2P275S	AU7-T2-20-2P320S	AU7-T2-20-2P385S	AU7-T2-20-2P440S
3P	AU7-T2-20-3P150S	AU7-T2-20-3P275S	AU7-T2-20-3P320S	AU7-T2-20-3P385S	AU7-T2-20-3P440S
4P	AU7-T2-20-4P150S	AU7-T2-20-4P275S	AU7-T2-20-4P320S	AU7-T2-20-4P385S	AU7-T2-20-4P440S
1P+NPE	AU7-T2-20-1PN150S	AU7-T2-20-1PN275S	AU7-T2-20-1PN320S	AU7-T2-20-1PN385S	AU7-T2-20-1PN440S
3P+NPE	AU7-T2-20-3PN150S	AU7-T2-20-3PN275S	AU7-T2-20-3PN320S	AU7-T2-20-3PN385S	AU7-T2-20-3PN440S

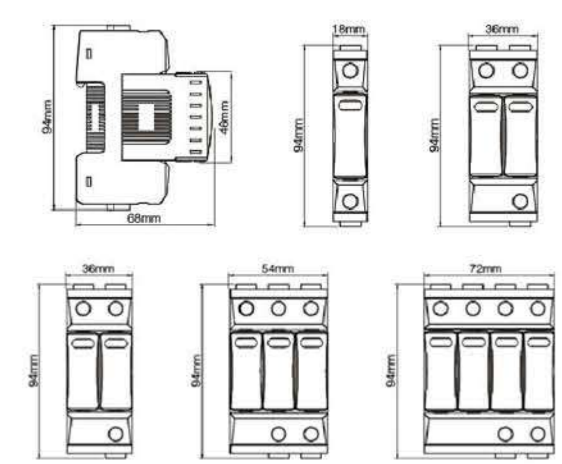
Technical Data

SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max.continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max.continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current(8/20 μs)	In	10kA	10kA	10kA	10kA	10kA
Maximum discharge current(8/20 μs)	Imax	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max.backup fuse		125A gL				
Response time	tA	≤25ns				
Response time	tA(N-PE)	≤100ns				
Operating temperature range	Tu	-40℃ ~80℃				
Operating State/Fault Indication		Green/Red				
Cross-section area(Min.)		4mm²				
Cross-section area(Max.)		2 35mm				
For mounting on		35mm Din rail				
Enclosure material		Thermal Plastic UL94-V0				
Degree of Protection		IP20				
No.of Poles		1P,2P,3P,4P,1P+NPE,3P+NPE				

Basic circuit diagram



Overall and Installation Dimension(mm)



KYPV600V

Photovoltaic specific surge protector

Overview

The KYPV600V series surge protector is suitable for new energy wind and solar power generation systems. It is equipped with a remote signal interface and can achieve remote control. It is installed in the DC circuit main power supply system.

Install

The surge protector must be installed in parallel on the power line at the front end of the protected equipment and must be powered off for installation;

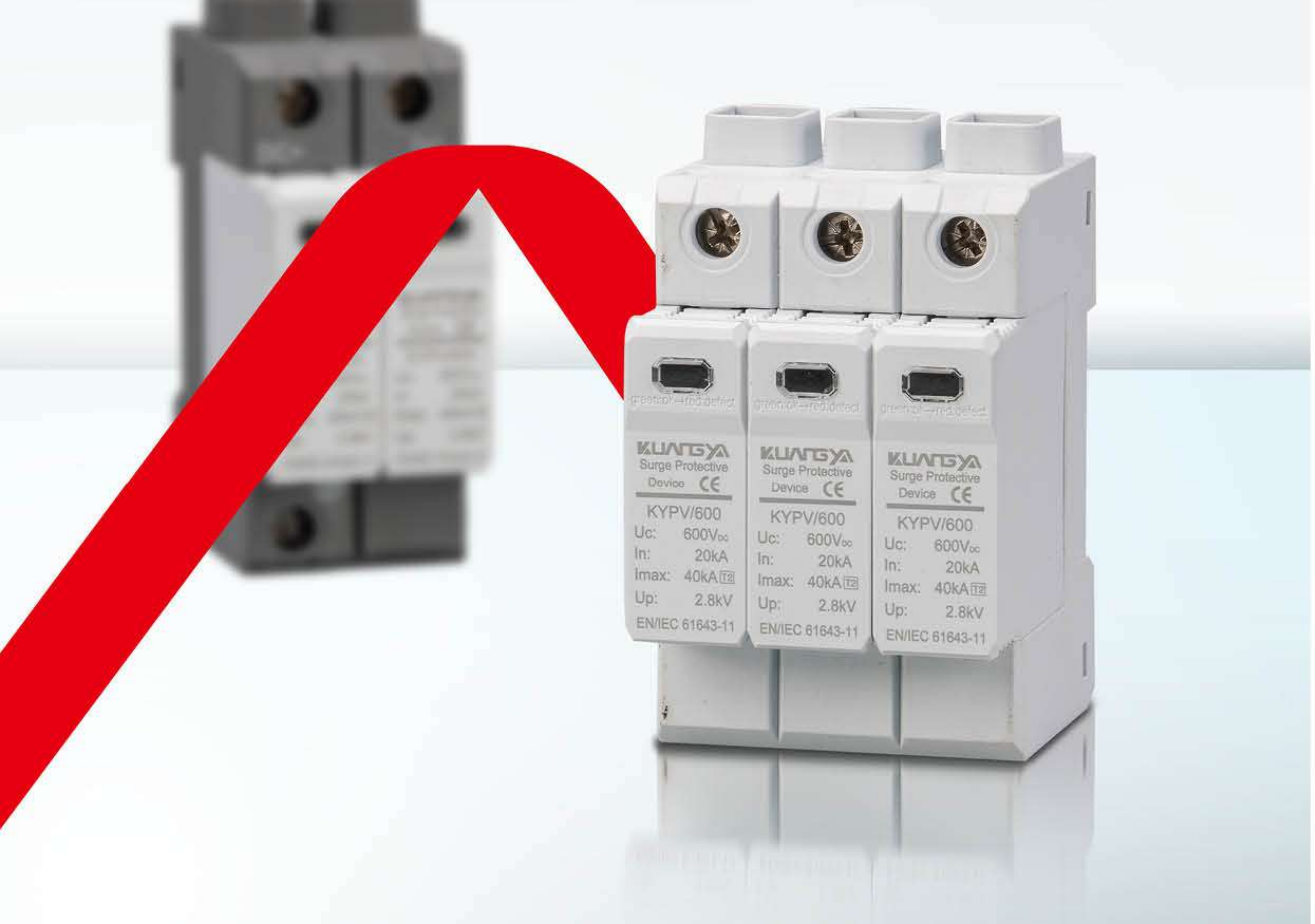
Suggest connecting fuses or circuit breakers in series at the front end of the lightning protection module;

When installing, please follow the links shown in the installation diagram, where+is the positive wire, - is the negative wire, and PE is the ground wire. Do not connect them incorrectly. After installation, close the circuit breaker (fuse) switch and check if the working status is normal;

After installation, insert the module into place and check if the anti collaboration module is working properly;

Using a 35mm standard guide rail for installation, the connecting wires should be firm and reliable, and should be short, thick, and straight;

Built in failure hot release mechanism, fault display, remote signal alarm function (optional), plug-in module design, easy maintenance;



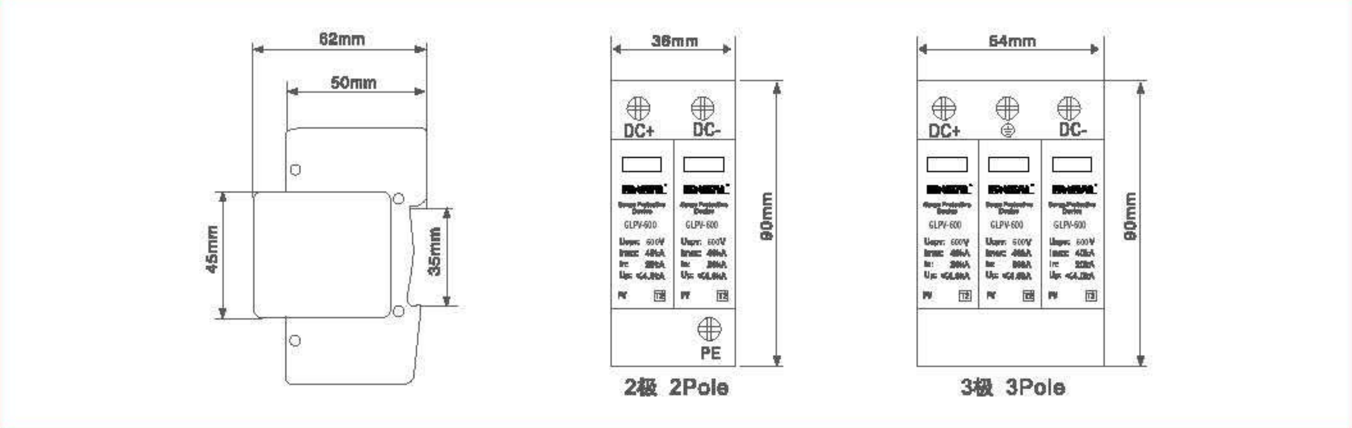
Main structure and working principle

The KYPV600V series is a plug-in structure. During the trial period, the lightning protection module should be regularly checked and the status of the fault display window should be checked. When the fault display window is red or the remote signal terminal outputs an alarm signal, it indicates that the lightning protection module has malfunctioned and should be repaired or replaced in a timely manner.

Main technical parameters

Name	KYD1-PV690V	KYD1-PV1000V	KYD1-PV1200V	KYD1-PV1500V
Maximum continuous operating voltage (VDC)	690VDC	1000VDC	1200VDC	1500VDC
Rated working voltage (VDC)	570VDC	880VDC	1000VDC	1250VDC
Maximum discharge current (Imax) (8/20us)	40kA			
Nominal discharge current In (8/20 μs) (kA)	20kA			
Protection level Up ≤ (kV)	≤3.2kV	≤3.8kV	≤4.5kV	≤5.0kV
Response Time (ns)	25ns			
Working Temperature (℃)	-40℃ -+85℃			
Remote signaling function	Can be allocated separately			
Scope of use	DC surge			
Window indication	When normal: green; When ineffective: red			
Protection level	IP 20			
Number of poles	2P、3P			
Notes	Uc can be customized for SPD ranging from 48V to 1500V			

Appearance and installation wiring dimensions (mm)



KYPV1000V

Photovoltaic specific surge protector

Overview

The KYPV1000V series surge protector is suitable for new energy wind and solar power generation systems. It is equipped with a remote signal interface and can achieve remote control. It is installed in the DC circuit main power supply system.

Install

The surge protector must be installed in parallel on the power line at the front end of the protected equipment and must be powered off for installation;

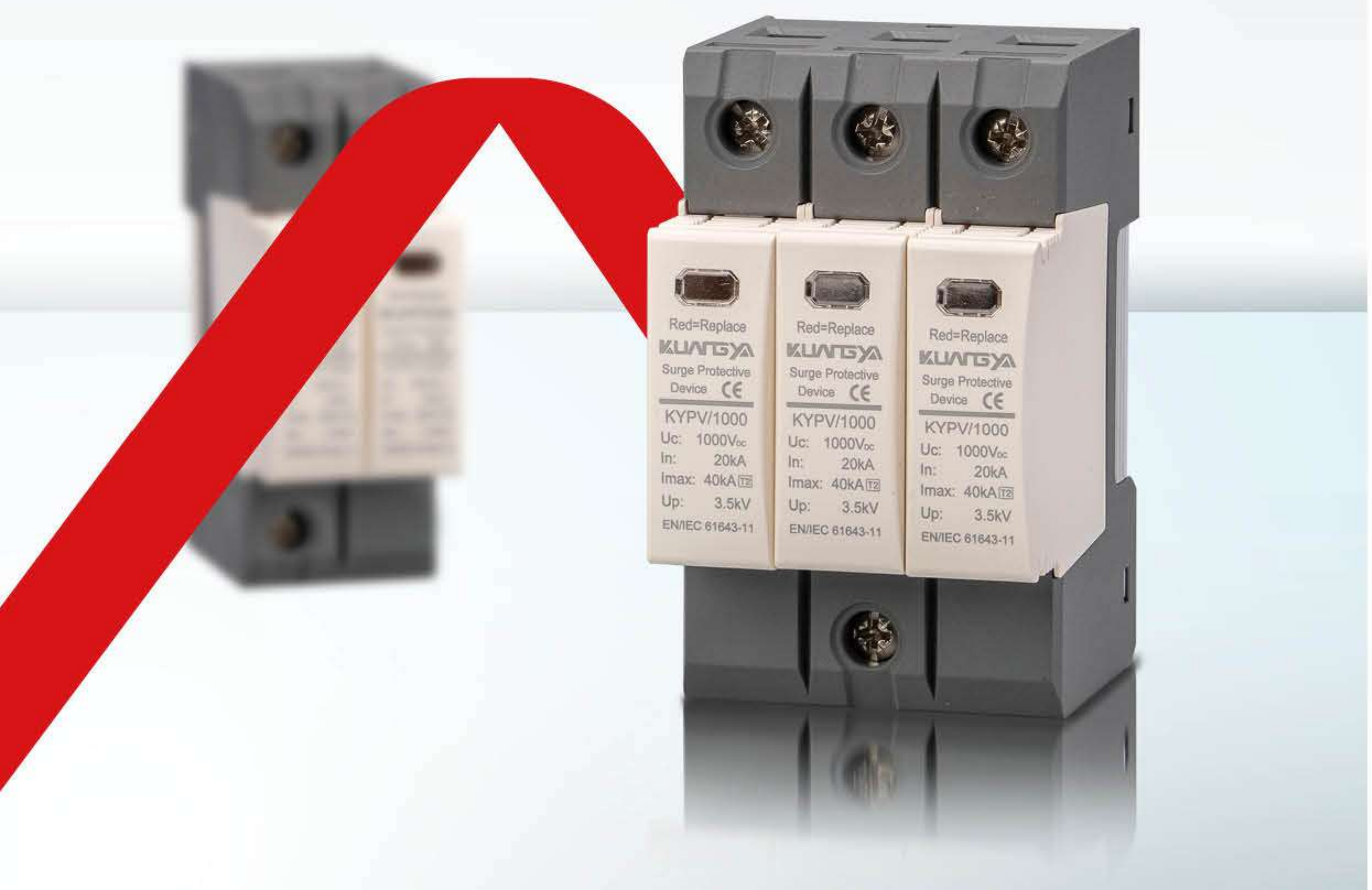
Suggest connecting fuses or circuit breakers in series at the front end of the lightning protection module;

When installing, please follow the links shown in the installation diagram, where+is the positive wire, - is the negative wire, and PE is the ground wire. Do not connect them incorrectly. After installation, close the circuit breaker (fuse) switch and check if the working status is normal;

After installation, insert the module into place and check if the anti collaboration module is working properly;

Using a 35mm standard guide rail for installation, the connecting wires should be firm and reliable, and should be short, thick, and straight;

Built in failure hot release mechanism, fault display, remote signal alarm function (optional), plug-in module design, easy maintenance;



KUANGYA

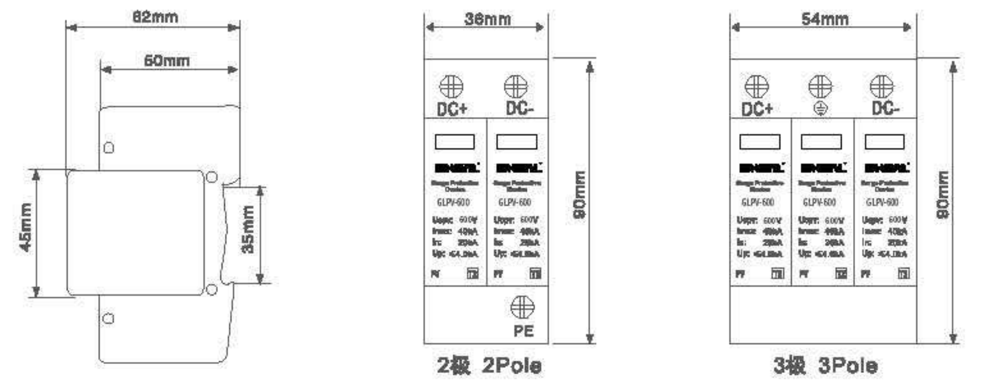
Main structure and working principle

The KYPV1000V series is a plug-in structure. During the trial period, the lightning protection module should be regularly checked and the status of the fault display window should be checked. When the fault display window is red or the remote signal terminal outputs an alarm signal, it indicates that the lightning protection module has malfunctioned and should be repaired or replaced in a timely manner.

Main technical parameters

Name	KYD1-PV690V	KYD1-PV1000V	KYD1-PV1200V	KYD1-PV1500V
Maximum continuous operating voltage (VDC)	690VDC	1000VDC	1200VDC	1500VDC
Rated working voltage (VDC)	570VDC	880VDC	1000VDC	1250VDC
Maximum discharge current (Imax) (8/20us)	40kA			
Nominal discharge current In (8/20 μs) (kA)	20kA			
Protection level Up ≤ (kV)	≤3.2kV	≤3.8kV	≤4.5kV	≤5.0kV
Response Time (ns)	25ns			
Working Temperature (℃)	-40℃ -+85℃			
Remote signaling function	Can be allocated separately			
Scope of use	DC surge			
Window indication	When normal: green; When ineffective: red			
Protection level	IP 20			
Number of poles	2P、3P			
Notes	Uc can be customized for SPD ranging from 48V to 1500V			

Appearance and installation wiring dimensions (mm)



KYPV600V

Photovoltaic specific surge protector

Overview

The KYPV600V series surge protector is suitable for new energy wind and solar power generation systems. It is equipped with a remote signal interface and can achieve remote control. It is installed in the DC circuit main power supply system.

Install

The surge protector must be installed in parallel on the power line at the front end of the protected equipment and must be powered off for installation;

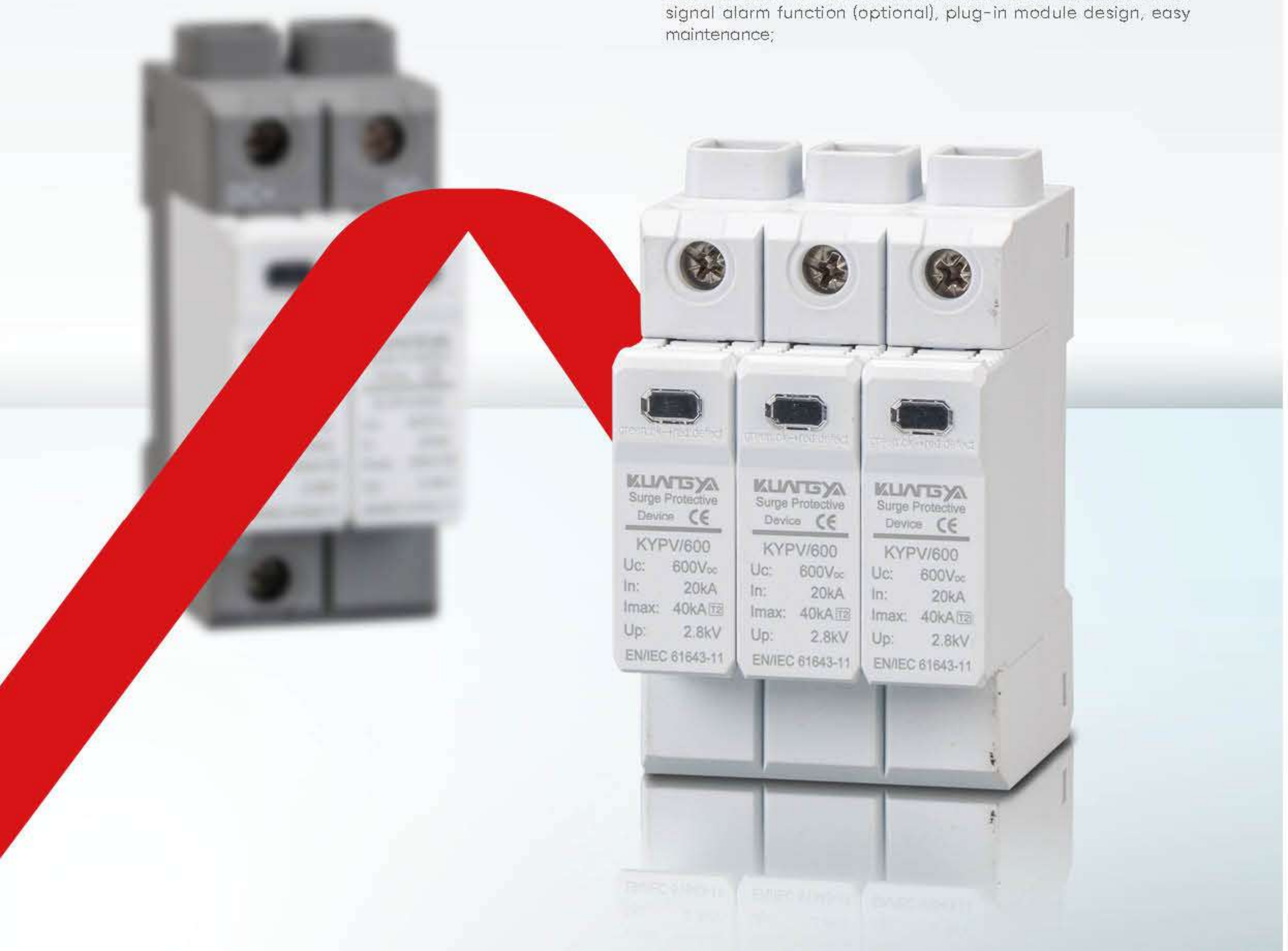
Suggest connecting fuses or circuit breakers in series at the front end of the lightning protection module;

When installing, please follow the links shown in the installation diagram, where+is the positive wire, - is the negative wire, and PE is the ground wire. Do not connect them incorrectly. After installation, close the circuit breaker (fuse) switch and check if the working status is normal;

After installation, insert the module into place and check if the anti collaboration module is working properly;

Using a 35mm standard guide rail for installation, the connecting wires should be firm and reliable, and should be short, thick, and straight;

Built in failure hot release mechanism, fault display, remote signal alarm function (optional), plug-in module design, easy maintenance;



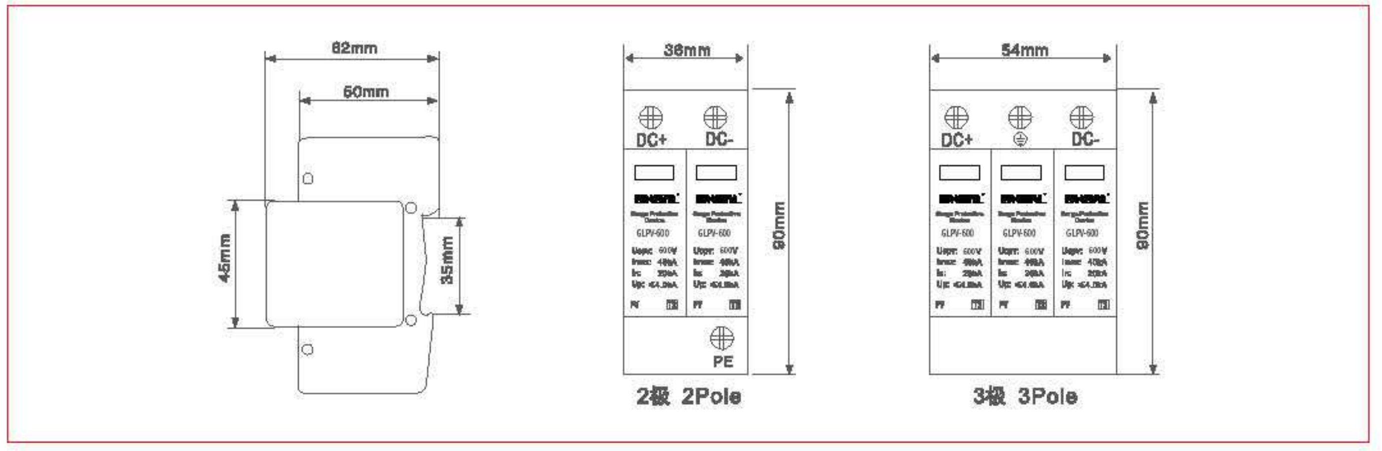
Main structure and working principle

The KYPV600V series is a plug-in structure. During the trial period, the lightning protection module should be regularly checked and the status of the fault display window should be checked. When the fault display window is red or the remote signal terminal outputs an alarm signal, it indicates that the lightning protection module has malfunctioned and should be repaired or replaced in a timely manner.

Main technical parameters

Name	KYD1-PV690V	KYD1-PV1000V	KYD1-PV1200V	KYD1-PV1500V
Maximum continuous operating voltage (VDC)	690VDC	1000VDC	1200VDC	1500VDC
Rated working voltage (VDC)	570VDC	880VDC	1000VDC	1250VDC
Maximum discharge current (Imax) (8/20us)	40kA			
Nominal discharge current In (8/20 μ s) (kA)	20kA			
Protection level Up ≤ (kV)	≤3.2kV	≤3.8kV	≤4.5kV	≤5.0kV
Response Time (ns)	25ns			
Working Temperature (℃)	-40℃ -+85℃			
Remote signaling function	Can be allocated separately			
Scope of use	DC surge			
Window indication	When normal: green; When ineffective: red			
Protection level	IP 20			
Number of poles	2P、3P			
Notes	Uc can be customized for SPD ranging from 48V to 1500V			

Appearance and installation wiring dimensions (mm)



gG NT 500V fuse links

NT FUSE LINKS & FUSE BASES

Overview

Knife type(NT)fuse-links gG class for general use,with top indicator.These high breaking capacity fuse links are intended for protection of power lines and equipment,against overloads and short-circuits with rated voltages up to 500V AC(+10%)The rated breaking capacity is 120 kA. The range comprises fuse links from size NT000 up to NT4,with rated currents from 2A up to 1250A.

Compact versions in low rated currents of every size. Manufactured with ceramic body with high withstand to internal pressure and thermal shock,that allows a high breaking capacity. Knife contacts are made of silver plated copper or brass.

NT000		In(A)	REFERENCE	PACKING Uni/Box
U	500V	2		3/90
		4		3/90
BREAKING	120kA	6		3/90
CAPACITY		10		3/90
		16		3/90
		20		3/90
		25		3/90
		32		3/90
		35		3/90
		40		3/90
		50		3/90
		63		3/90
		80		3/90
		100		
NT00				
U	500V	150		3/60
BREAKING CAPACITY	120kA	160		3/60

NT0		In(A)	REFERENCE	PACKING Uni/Box
U	500V	6		3/42
		10		3/42
BREAKING	120kA	16		3/42
CAPACITY		20		3/42
		25		3/42
		32		3/42
		35		3/42
		40		3/42
		50		3/42
		63		3/42
		80		3/42
		100		3/42
		125		3/42
		160		3/42

NT1		In(A)	REFERENCE	PACKING Uni/Box
U	500V	125		3/30
		160		3/30
BREAKING CAPACITY	120kA	200		3/30
		224		
		250		
NT1				
U	500V	200		3/18
		224		3/18
		250		3/18
BREAKING CAPACITY	120kA	315		
		355		
		400		3/18

NT3		In(A)	REFERENCE	PACKING Uni/Box
U	500V	315		
		355		3/18
BREAKING CAPACITY	120kA	400		3/18
OVERRATING FUSES		425		3/18
		500		
		630		3/18
NT4				
U	500V	630		
		800		3/18
BREAKING	120kA	1000		3/18
CAPACITY		1250		3/18
				3/18

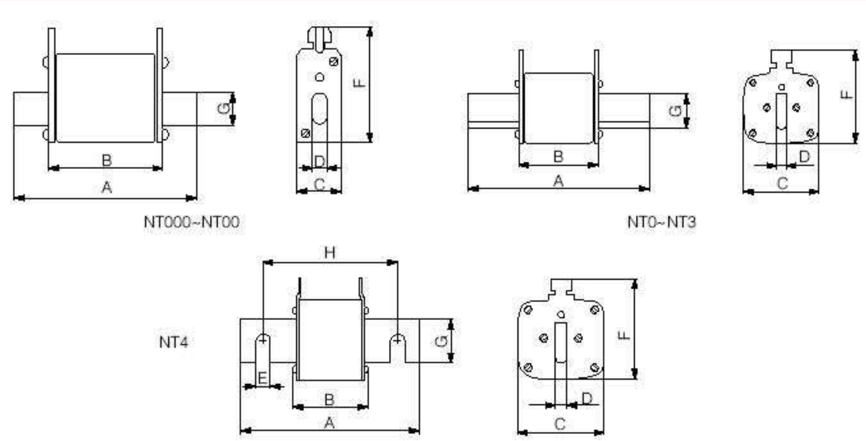
gG NT 500V fuse links

NT FUSE LINKS & FUSE BASES

TECHNICAL DATA

RATED VOLTAGE	BREAKING CAPACITY		RATED CURRENT
500V	120kA	NT000	2、4、6、10、16、20、25、32、35、40、50、63、80、100
		NT00	2、4、6、10、16、20、25、32、35、40、50、63、80、100、125、160
		NT0	6、10、16、20、25、32、35、40、50、63、80、100、125、160
		NT1	125、160、200、224、250
		NT2	200、224、250、315、355、400
		NT3	315、355、400、425、500、630
		NT4	500、630、800、900、1000、1250

DIMENSIONS



	A	B	C	D	F	G
NT000	78	49	21	6	52.5	15
NT00	78	49	30	6	55.5	15
NT0	125	65	30	6	55.5	15
NT1	135	68	48	6	60	20
NT2	150	68	58	6	70	25
NT3	150	68	67	6	82	32
NT4	200	90	97	8	113	50

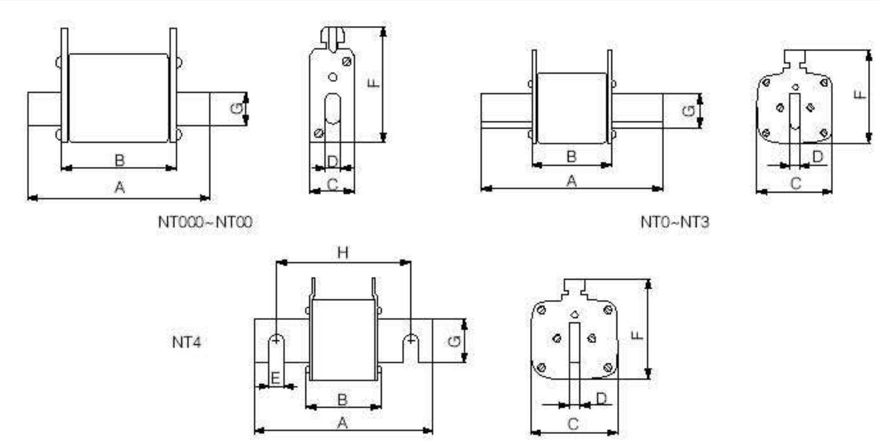
gG NT 690V fuse links

NT FUSE LINKS & FUSE BASES

TECHNICAL DATA

RATED VOLTAGE	BREAKING CAPACITY		RATED CURRENT
690V	80kA	NT000	2、4、6、10、16、20、25、32、35、40
		NT00	50、63、80、100
		NT0	6、10、16、20、25、32、35、40、50、63、80、100
		NT1	50、63、80、100、125、160、200
		NT2	63、80、100、125、160、200、224、250、315
		NT3	250、315、355、400、425、500
		NT4	400、500、630、800

DIMENSIONS



	A	B	C	D	F	G
NT000	78	49	21	6	52.5	15
NT00	78	49	30	6	55.5	15
NT0	125	65	30	6	55.5	15
NT1	135	68	48	6	60	20
NT2	150	68	58	6	70	25
NT3	150	68	67	6	82	32
NT4	200	90	97	8	113	50

gG/aR RT AC500/690V fuse bases

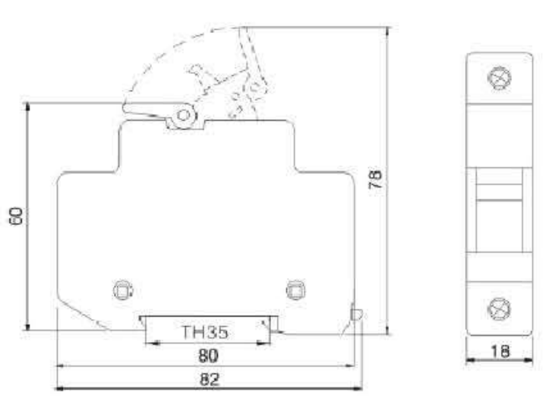
RT FUSE LINKS & FUSE BASES

Product Features

- Comply with GB13539,IEC60269 and other standards and Tuv certification;
- Rated voltage:AC400V,500V,690V,1140V,DC250V,500V;
- Functional grade gG/gL;
- gG/gL is used for cable and conductor current protection and electrical equipment protection;
- Rated breaking:AC50kA,DC8kA;
- AC660V,1140V are used for protection of mine electrical appliances and cable conductor system.

RT18-32/32X		In(A)	PEFERENCE	PACKING Uni/BOX
U	AC500/690V	32		3/90
BREAKING CAPACITY	100kA			

DIMENSIONS



gG/aR RT AC500/690 DC250 fuse links

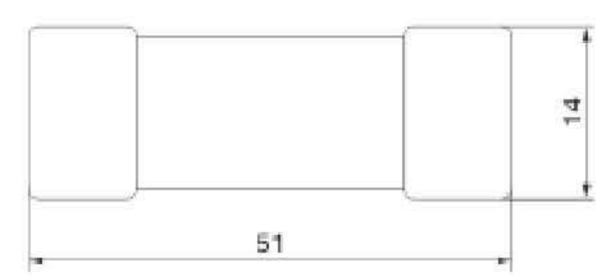
FUSE LINKS & FUSE BASES

Product Features

- Comply with GB13539,IEC60269 and other standards and Tuv certification;
- Rated voltage:AC400V,500V,690V,1140V,DC250V,500V;
- Functional grade gG/gL;
- gG/gL is used for cable and conductor current protection and electrical equipment protection;
- Rated breaking:AC50kA,DC8kA;
- AC660V,1140V are used for protection of mine electrical appliances and cable conductor system.

RT18-63		In(A)	PEFERENCE	PACKING Uni/BOX
U	AC500/690V	10		3/90
	DC250V	16		3/90
		20		3/90
BREAKING	100kA 50kA	25		3/90
CAPACITY		32		3/90
		35		3/90
		40		3/90
		50		3/90
		63		

DIMENSIONS



gG/aR RT AC500/690V DC250 fuse bases

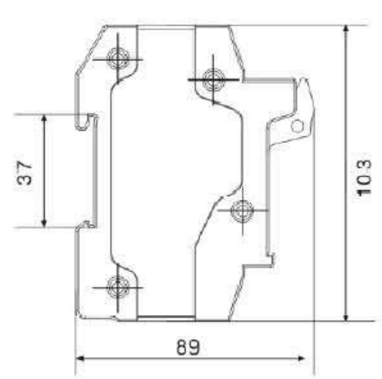
RT FUSE LINKS & FUSE BASES

Product Features

- Comply with GB13539,IEC60269 and other standards and Tuv certification;
- Rated voltage:AC400V,500V,690V,1140V,DC250V,500V;
- Functional grade gG/gL;
- gG/gL is used for cable and conductor current protection and electrical equipment protection;
- Rated breaking:AC50kA,DC8kA;
- AC660V,1140V are used for protection of mine electrical appliances and cable conductor system.

RT18-63		In(A)	PEFERENCE	PACKING Uni/BOX
U	AC500/690V DC250V	63		3/90
BREAKING CAPACITY	100kA			

DIMENSIONS



gG/aR RT AC500/690V DC250 fuse links

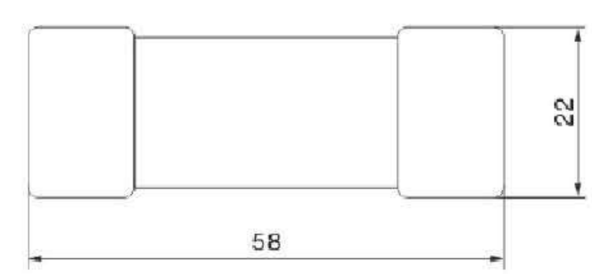
RT FUSE LINKS & FUSE BASES

Product Features

- Comply with GB13539,IEC60269 and other standards and Tuv certification;
- Rated voltage:AC400V,500V,690V,1140V,DC250V,500V;
- Functional grade gG/gL;
- gG/gL is used for cable and conductor current protection and electrical equipment protection;
- Rated breaking:AC50kA,DC8kA;
- AC660V,1140V are used for protection of mine electrical appliances and cable conductor system.

RT18-125		In(A)	PEFERENCE	PACKING Uni/BOX
U	AC500/690V	16		3/90
	DC250V	20		3/90
		25		3/90
BREAKING	100kA	32		3/90
CAPACITY	50kA	35		3/90
		40		3/90
		50		3/90
		63		3/90
		80		
		100		
		125		

DIMENSIONS



gG/aR RT AC500/690V DC250 fuse bases

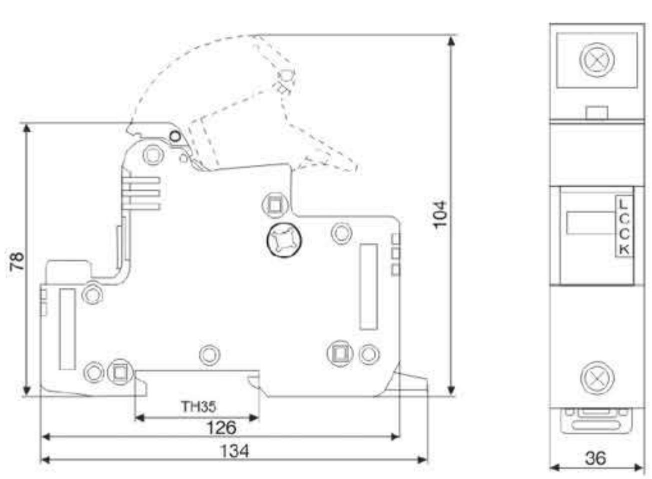
RT FUSE LINKS & FUSE BASES

Product Features

- Comply with GB13539,IEC60269 and other standards and Tuv certification;
- Rated voltage:AC400V,500V,690V,1140V,DC250V,500V;
- Functional grade gG/gL;
- gG/gL is used for cable and conductor current protection and electrical equipment protection;
- Rated breaking:AC50kA,DC8kA;
- AC660V,1140V are used for protection of mine electrical appliances and cable conductor system.

RT18-125		In(A)	PEFERENCE	PACKING Uni/BOX
U	AC500/690V DC250V	125		3/90
BREAKING CAPACITY	100kA			

DIMENSIONS

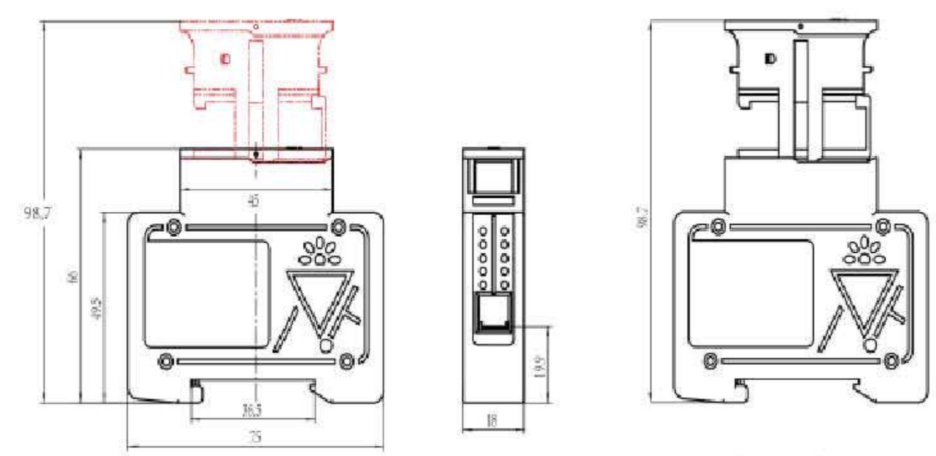


DC fuses for overcurrent protectionin solar photovoltaic systems

Fuses Base model	Equipped with fuse Body size	rated Voltage Vdc	rated electric current (A)	Overall size/size(mm)					
				figure number	A1	A2	B	H1	H2
CFPV-32 Base	10×38	1000	32	2	Detailed dimensions are shown in Figure 2				

DIMENSIONS

Figure 2



KYPV-32

Photovoltaic Fuse

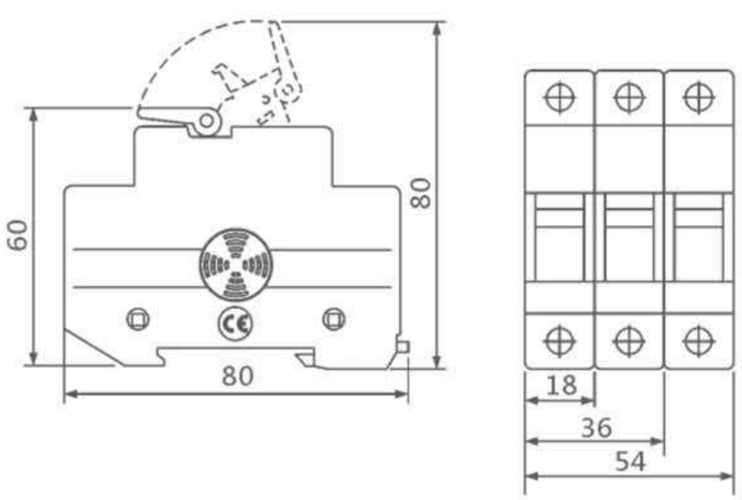
Product Parameters

KYPV-32	1000VDC(10X38)
KYPV-32X	1000VDC(10×38)

Photovoltaic Fuse

Rated Voltage	1000VDC
Class of Operation	gPV
Standard	GB/T 13539.6 IEC 60947-3

DIMENSIONS



KYPV-1065D

Photovoltaic Fuse

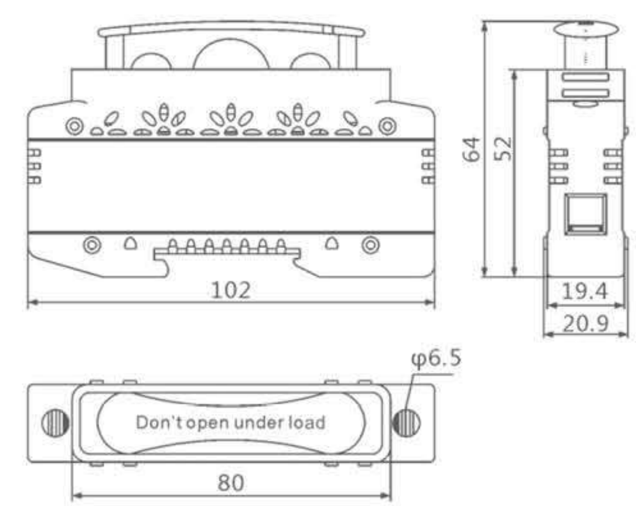
Product Parameters

KYPV-1065D	1500VDC(10X65)

Photovoltaic Fuse

Rated Voltage	1500VDC
Class of Operation	gPV
Standard	GB/T 13539.6 IEC 60947-3

DIMENSIONS



KYPV-63D

Photovoltaic Fuse

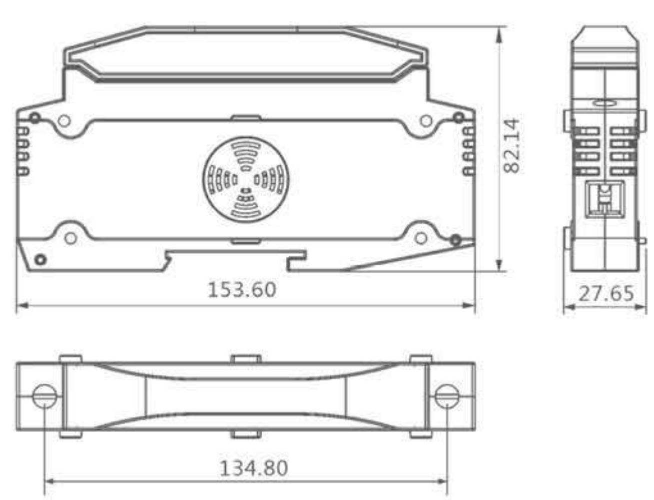
Product Parameters

KYPV-63D	1500VDC(10×85/14×85)

Photovoltaic Fuse

Rated Voltage	1500VDC
Class of Operation	gPV
Standard	GB/T 13539.6 IEC 60947-3

DIMENSIONS



KYPV-63/125

Photovoltaic Fuse

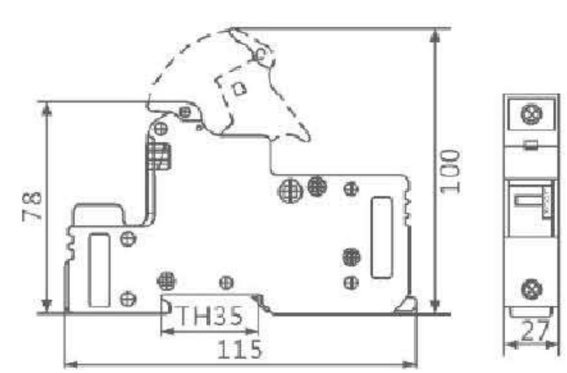
Product Parameters

KYPV-63	1000VDC(14×51)
KYPV-125	1000VDC(22×58)

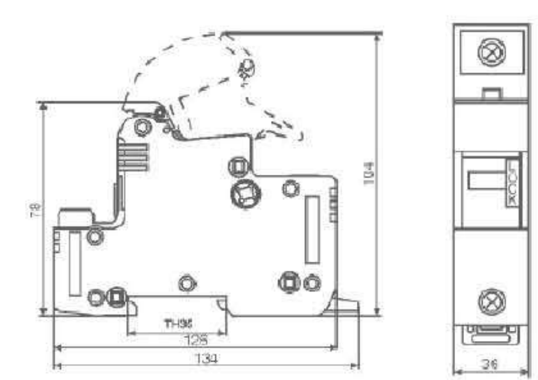
Photovoltaic Fuse

Rated Voltage	1000VDC
Class of Operation	gPV
Standard	GB/T 13539.6 IEC 60947-3

DIMENSIONS



KYPV-63



KYPV-125