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CNC
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CNC Deliver
Power For Better Life

DC SERIES

- Photovoltaic DC Combiner Box
Photovoltaic Fuse
- YC1509
PV1/1 DC COMBINER BOX
- YC1518
PV4/1 DC COMBINER BOX
- YCM3
DC Molded Case Circuit Breaker



www.cncele.com

CNC

Accessories



Company profile

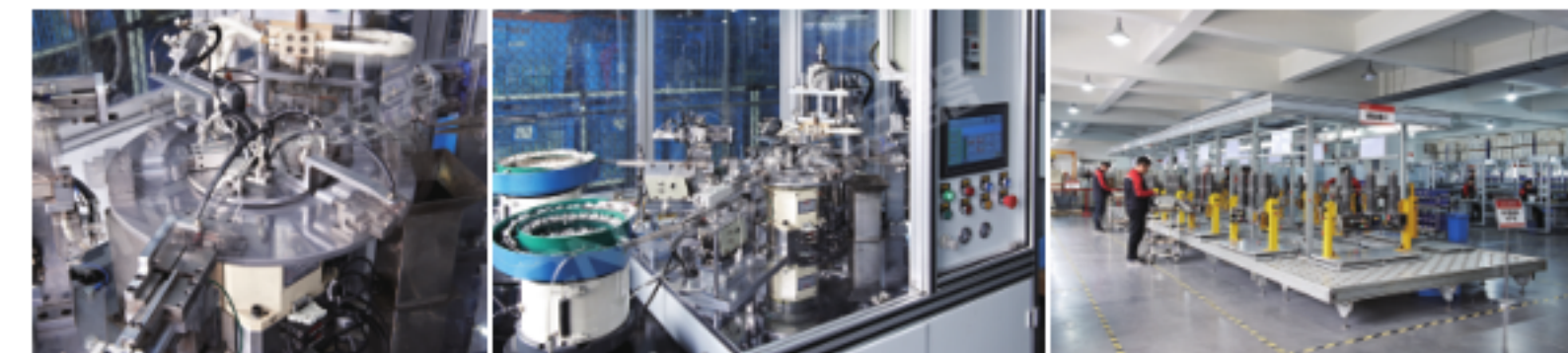


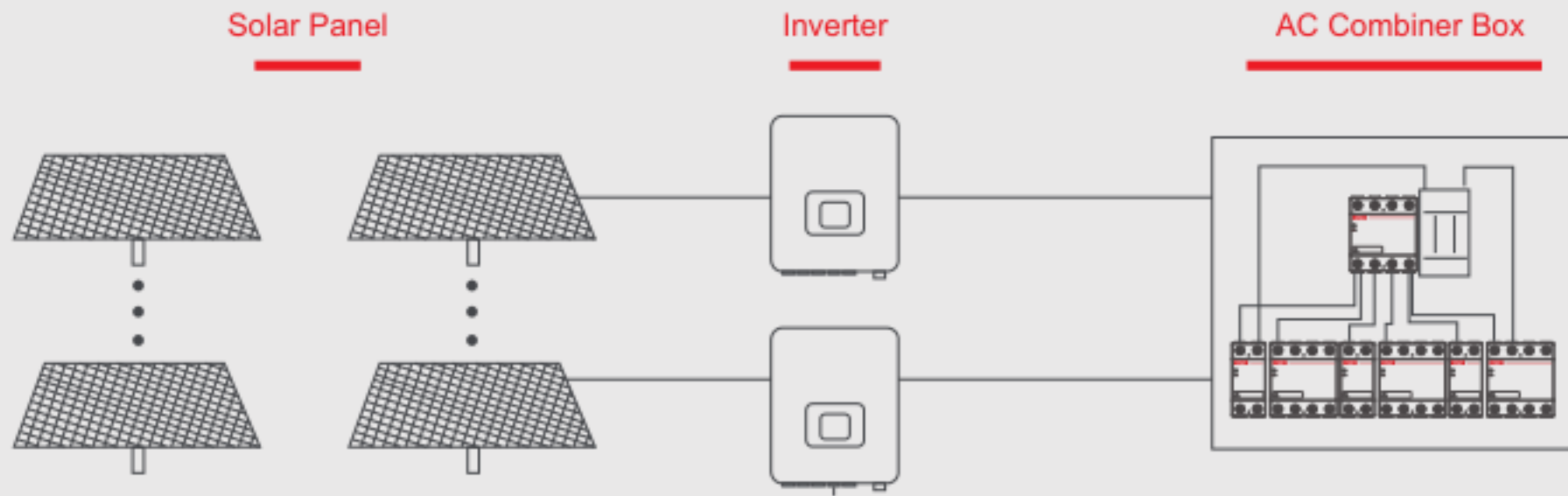
CNC Electric was founded in 1988 specialized in Low-voltage electrical and Power Transmission and Distribution industries. one of the leading manufacturer, specialized in manufacturing industrial electrical appliance, is a national large-scale enterprise integrated with R&D, manufacturing, trade and service, etc.

We provide our customer with profitable growth by offering integrated comprehensive electrical solution. CNC Electric key value is innovation and quality to ensure clients with safe, reliable products. We set up advanced assembly line, test center, R&D Center and quality control center. We have got the certificates of ISO9001, ISO14001, OHSAS18001 and CCC, CE, CB, SEMKO etc.

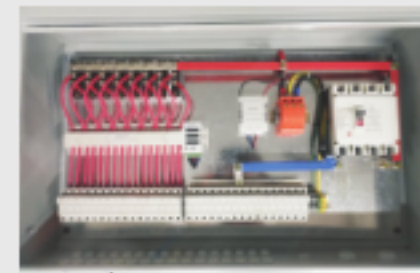
CNC Electric attaches great importance to R&D and improvement. The provincial technical center has been set up. CNC Electric will keep on optimizing and upgrading the industrial structure with its active innovation thought of cooperation and development so as to provide customers with more perfectly overall solutions.

As a leading brand in China, we have accumulated a wealth of supply experience. Since 2011, our export business covers over 100 countries and areas.





PV On-grid inverter

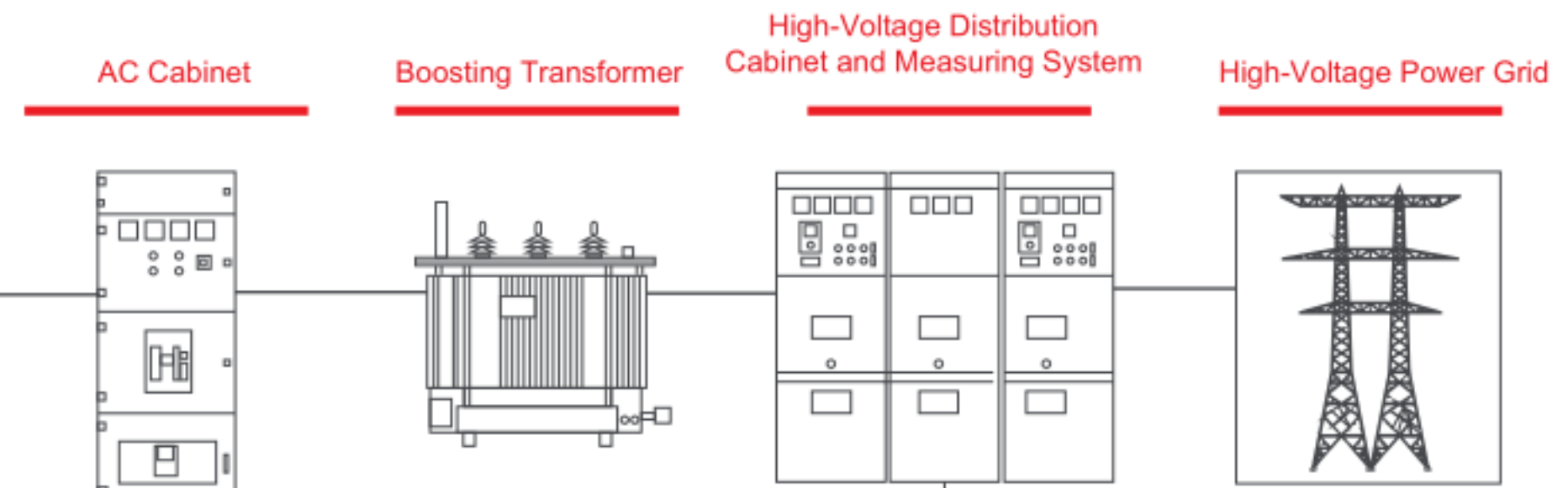


PV AC Combiner Box

CNC
ELECTRIC

GROUND STRING
TYPE PV GRID POWER
PLANT SPECIFIC PRODUCTS

- YCDSC-DB
- YCB9-80DM
- YCS6
- YCMC4
- YCM1
- YCHGL
- YCS6-C

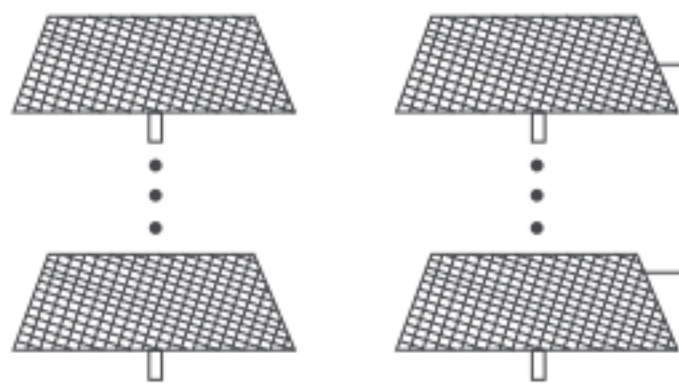


- YCW1
- YCM1
- YCHGL
- YCB9-80M
- YCS6-C
- YCQ1B
- ZN63A-12(VS1)
- JN15-24/31.5

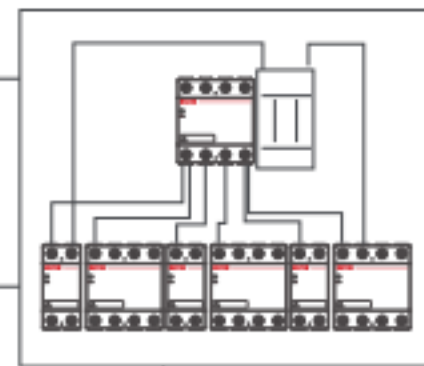
- PV DC MCB
- PV DC Rotate Isolator Switch
- PV DC SPD
- PV Waterproof Connector
- PV AC Combiner Box
- PV AC Frame-Type Circuit Breaker
- PV AC MCCB
- PV AC MCB
- PV AC Load-Disconnecter Switch
- PV AC SPD
- PV AC ATS
- High Voltage Circuit Breaker
- High Voltage Earth Switch
- YCB9-80DM(CCC,TUV,SAA,IEC)
- YCDSC-DB
- YCS6 DC
- YCMC4
- YCW1
- YCM1
- YCB9-80M
- YCHGL
- YCS6-C
- YCQ1B
- ZN63A-12(VS1)
- JN15



Solar Panel



PV DC Combiner Box



YCDSC-EL



PV DC Combiner Box



YCDSC-DB



YCB9-80DM



YCS6



RT18PV-32



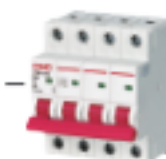
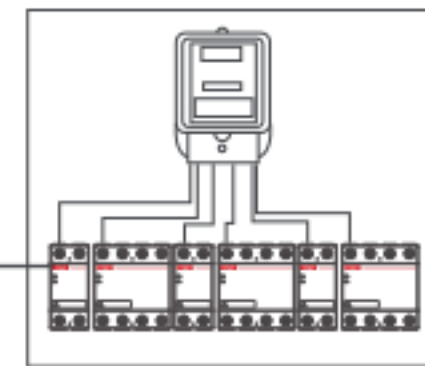
YCMC4

Contravariant

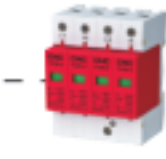


PV On-grid inverter

AC distribution box



YCB9-80M



YCS6-C



YCZF6

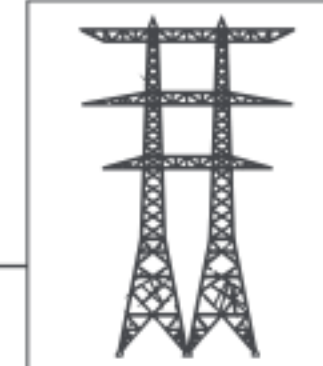


YCQ1B

Family Load



AC220V/AC380V Power Gnd



CNC ELECTRIC

GROUND STRING

TYPE PV GRID POWER PLANT SPECIFIC PRODUCTS

- PV DC MCB
- PV DC Rotate Isolator Switch
- PV DC SPD
- PV DC Fuse
- PV Waterproof Connector
- PV AC MCB
- Self-recovery Over voltage protector
- PV AC SPD
- PV AC Combiner Box
- PV AC ATS

- YCB9-80DM(CCC,TUV,SA,IEC)
- YCDSC-EL/YCDSC-DB
- YCS6 DC
- RT18PV
- YCMC4
- YCB9-80M
- YCZF6
- YCS6-C
- YCQ1B (CE)

YCX8-1509

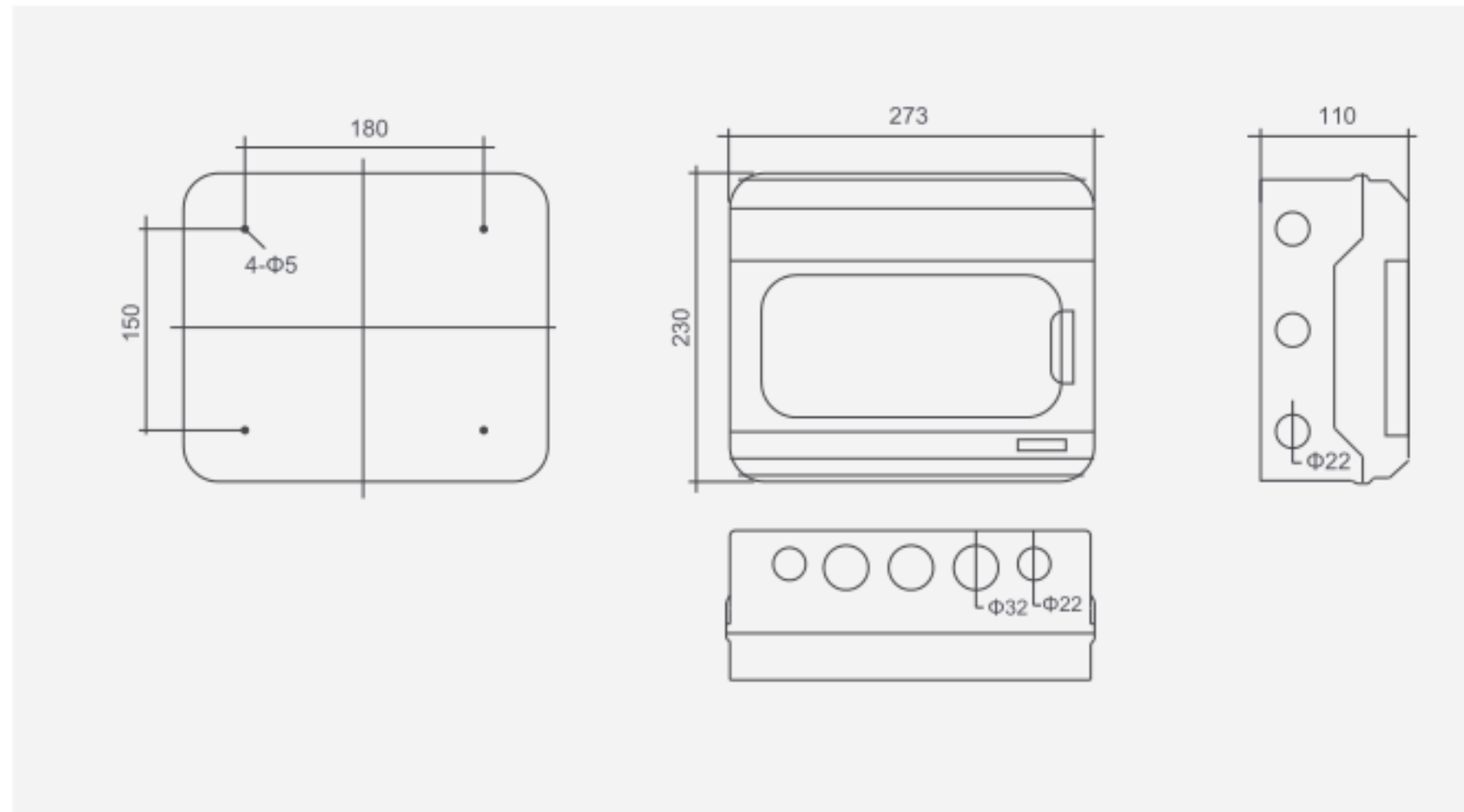
PV1/1 DC COMBINER BOX



Description

1509 1 DC combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 1 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PC/ABS engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Schematic



YCX8-1509

PV1/1 DC COMBINER BOX

TECHNICAL PARAMETERS

Name	SHLX-PV1/1	
	Electric parameter	
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	1	
Maximum output switch current	16A/20A	
Number of inverter MPPT	1	
Number of Output strings	1	
	Lightning protection	
Category of test	II Grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
Voltage protection level	2.8kV	2.8kV
Maximum continuous operating voltage U _c	630V	630V
Poles	2P	2P
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
PV surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	PVC	
Installation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
Elevation of temperature	2km	
Permissible relative humidity	0-95%, no condensation	
	Mechanical parameter	
Width×High×Depth	273×230×110	

YCX8-1509

PV1/1 DC COMBINER BOX

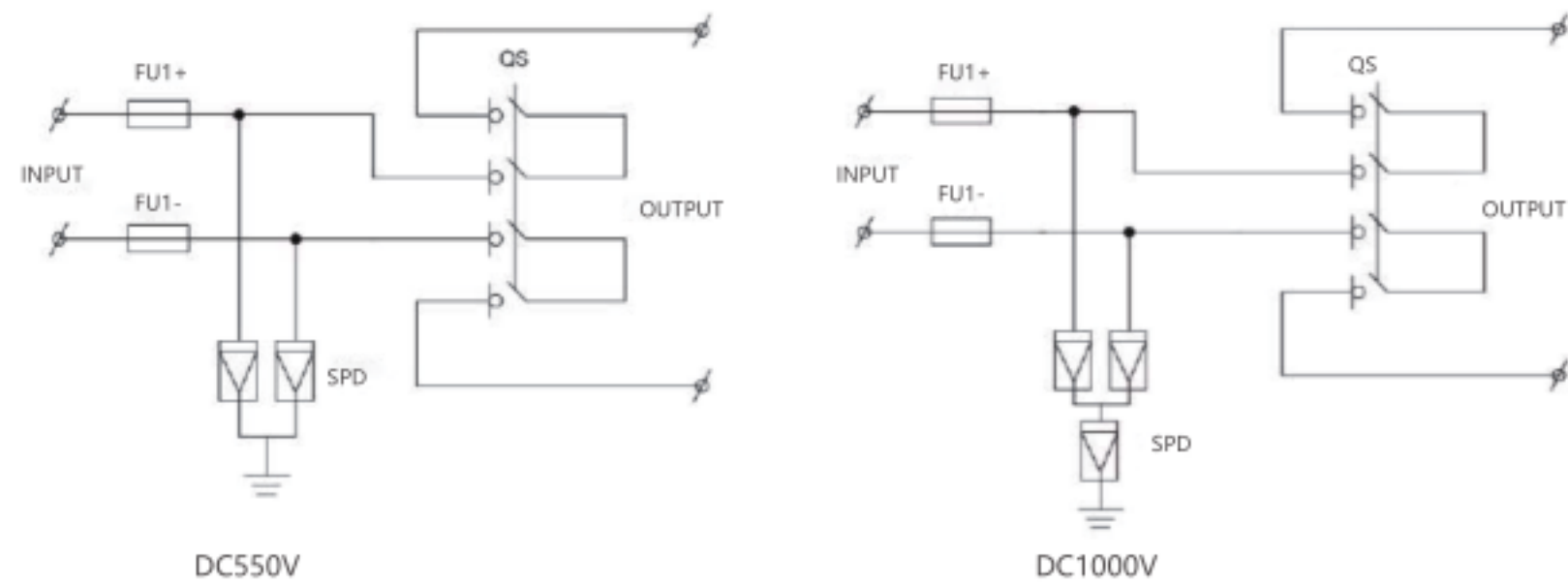
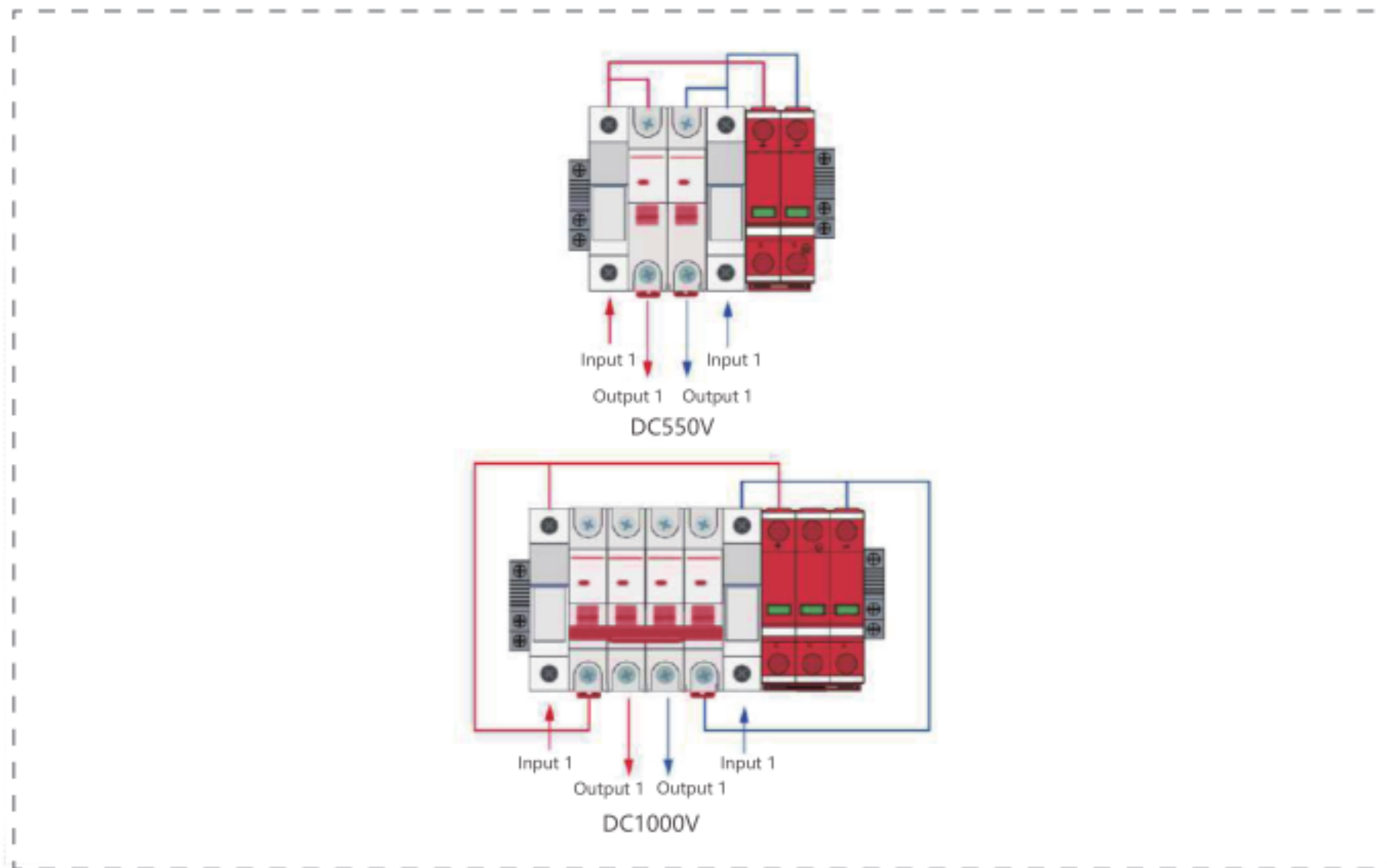
DESCRIPTION

PV1/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 1pv input channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the " Technical specification for photovoltaic junction equipment " CGC/GF 037:2014.

Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

SCHEMATIC DIAGRAM



YCX8-1512

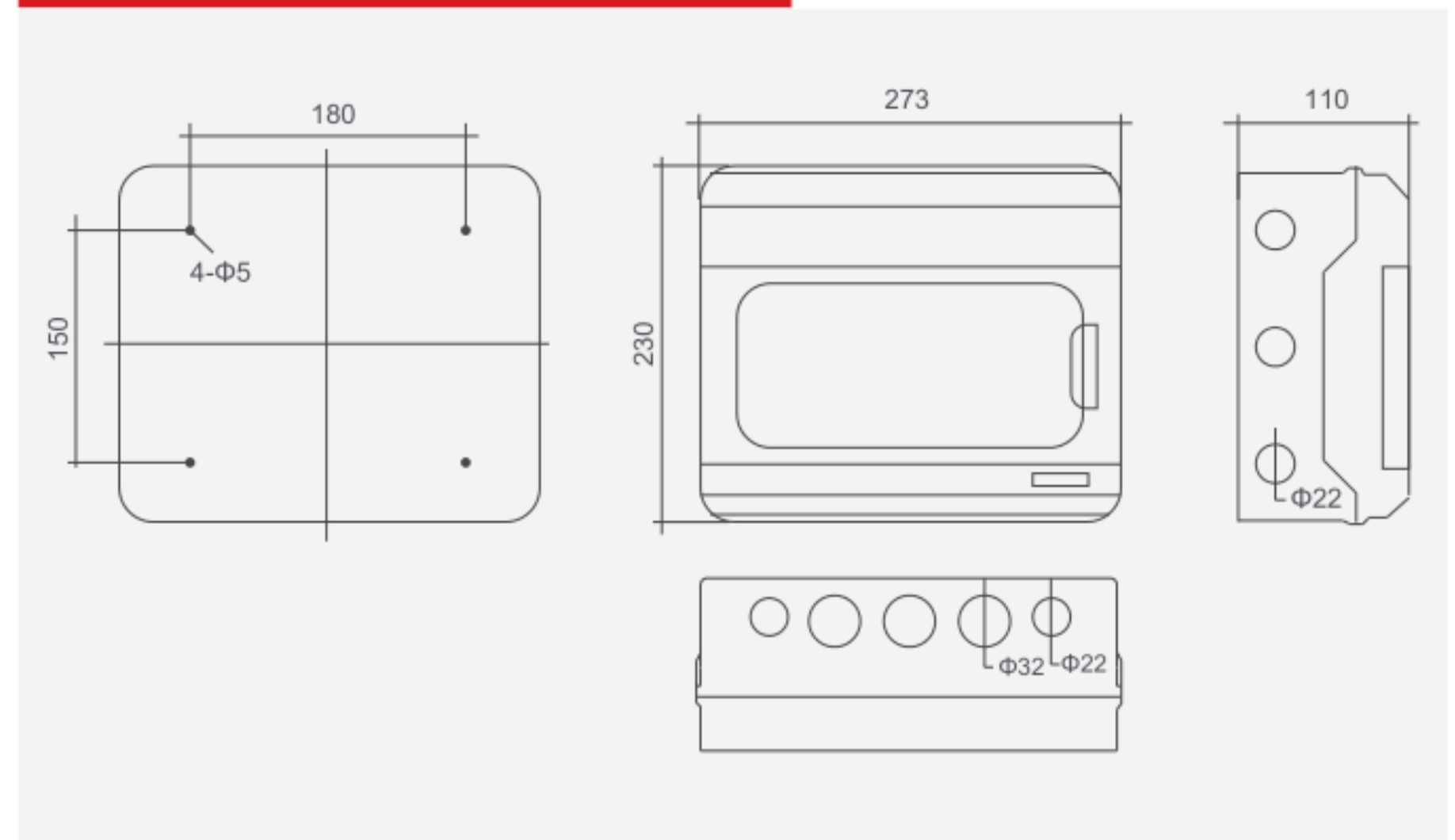
PV2/1 DC COMBINER BOX



Description

1512 2 DC combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 2 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Schematic



YCX8-1512

PV1/1 DC COMBINER BOX

TECHNICAL PARAMETERS

Name	SHLX-PV1/1	
	Electric parameter	
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	2	
Maximum output switch current	20A/32A	
Number of inverter MPPT	1	
Number of Output strings	1	
	Lightning protection	
Category of test	II Grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
Voltage protection level	2.8kV	3.8kV
Maximum continuous operating voltage U _c	630V	1050V
Poles	2P	3P
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
PV surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	PVC	
Installation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
Elevation of temperature	2km	
Permissible relative humidity	0-95%, no condensation	
	Mechanical parameter	
Width×High×Depth	273×230×110	

YCX8-1512

PV2/1 DC COMBINER BOX

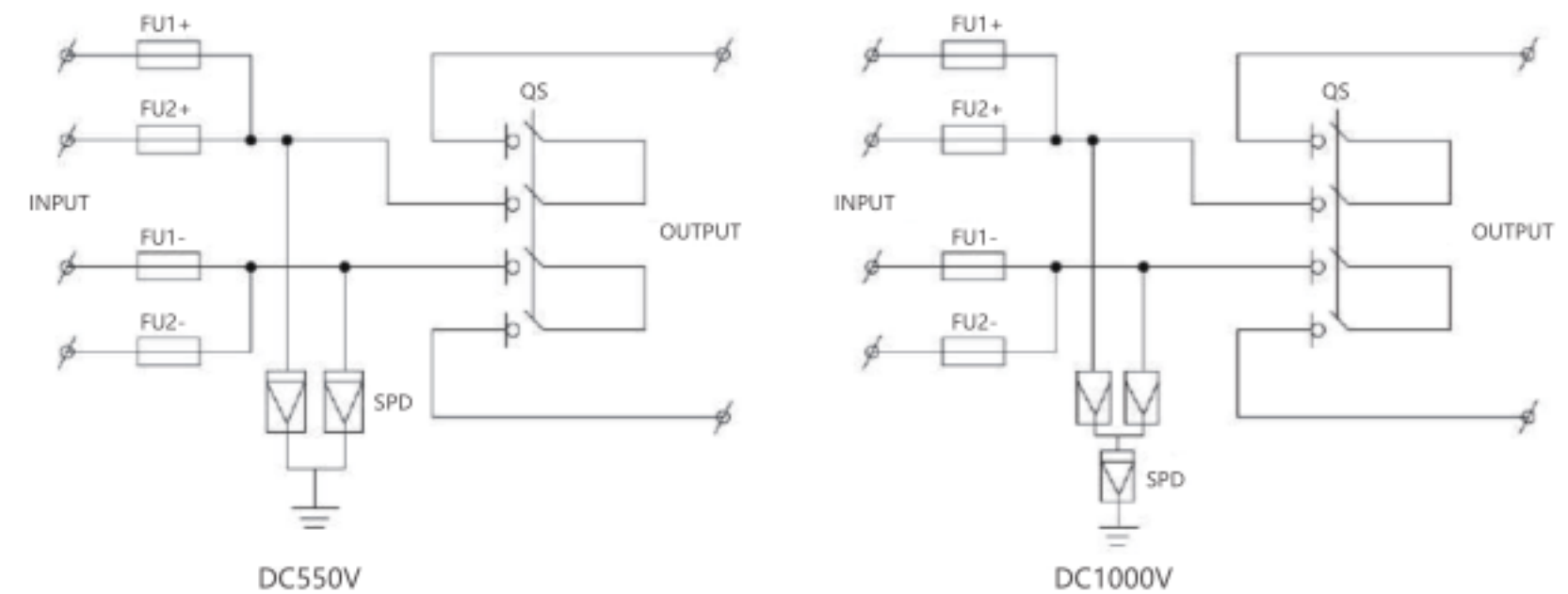
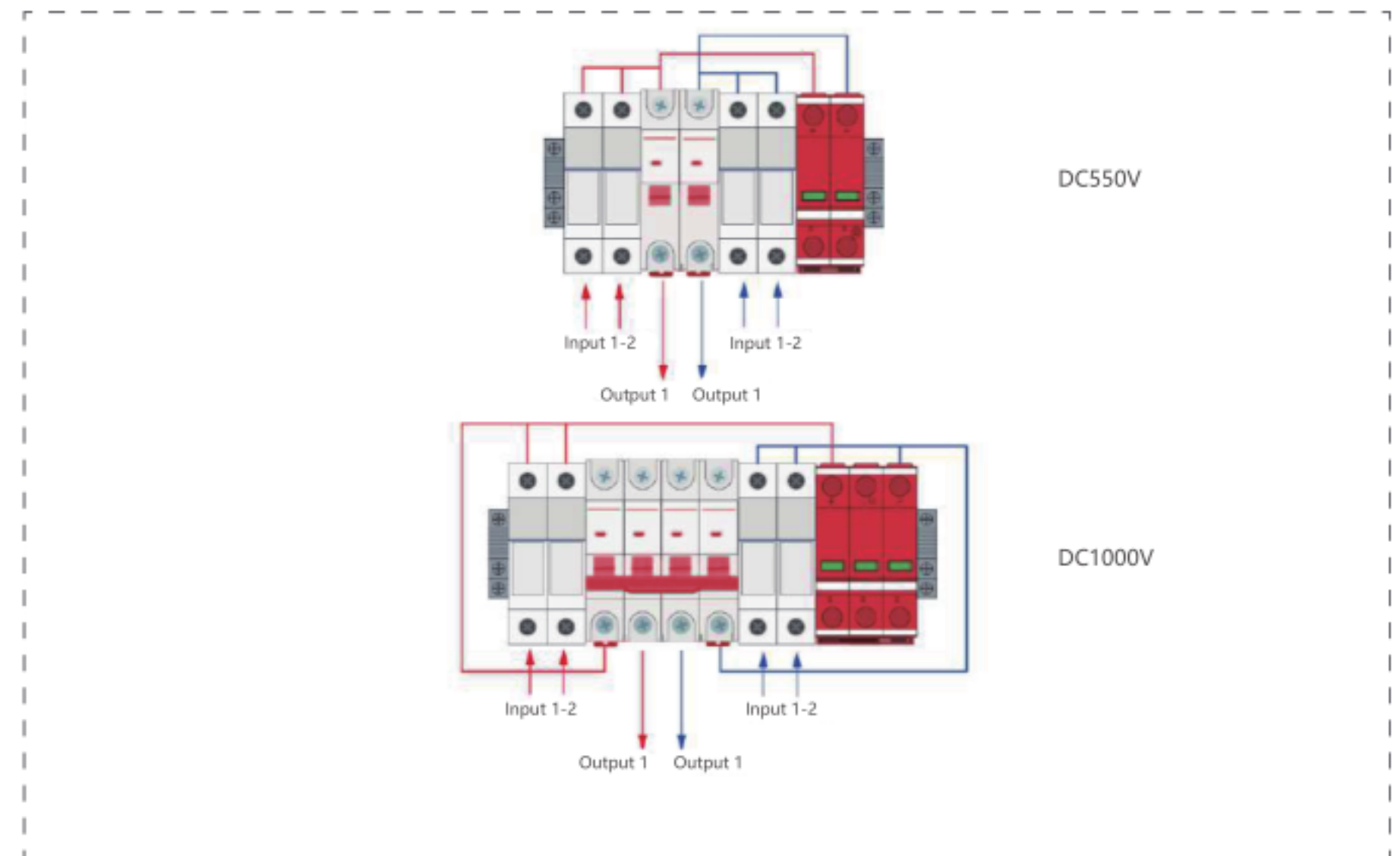
DESCRIPTION

PV2/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V,2pv input channel. 1 output channel, single MPPT inverter).Box body is made of PVC engineering materials,with test for fire retardant,temperature rise,anti impact, anti ultraviolet,and other testng.IP65 protection grade.

Design and configuration strictly accordance with the " Technical specification for photovoltaic junction equipment " CGC/GF 037:2014.

Provide users with a safe,brief,beautiful and applicable photovoltaic system products.

SCHEMATIC DIAGRAM



YCX8-1518

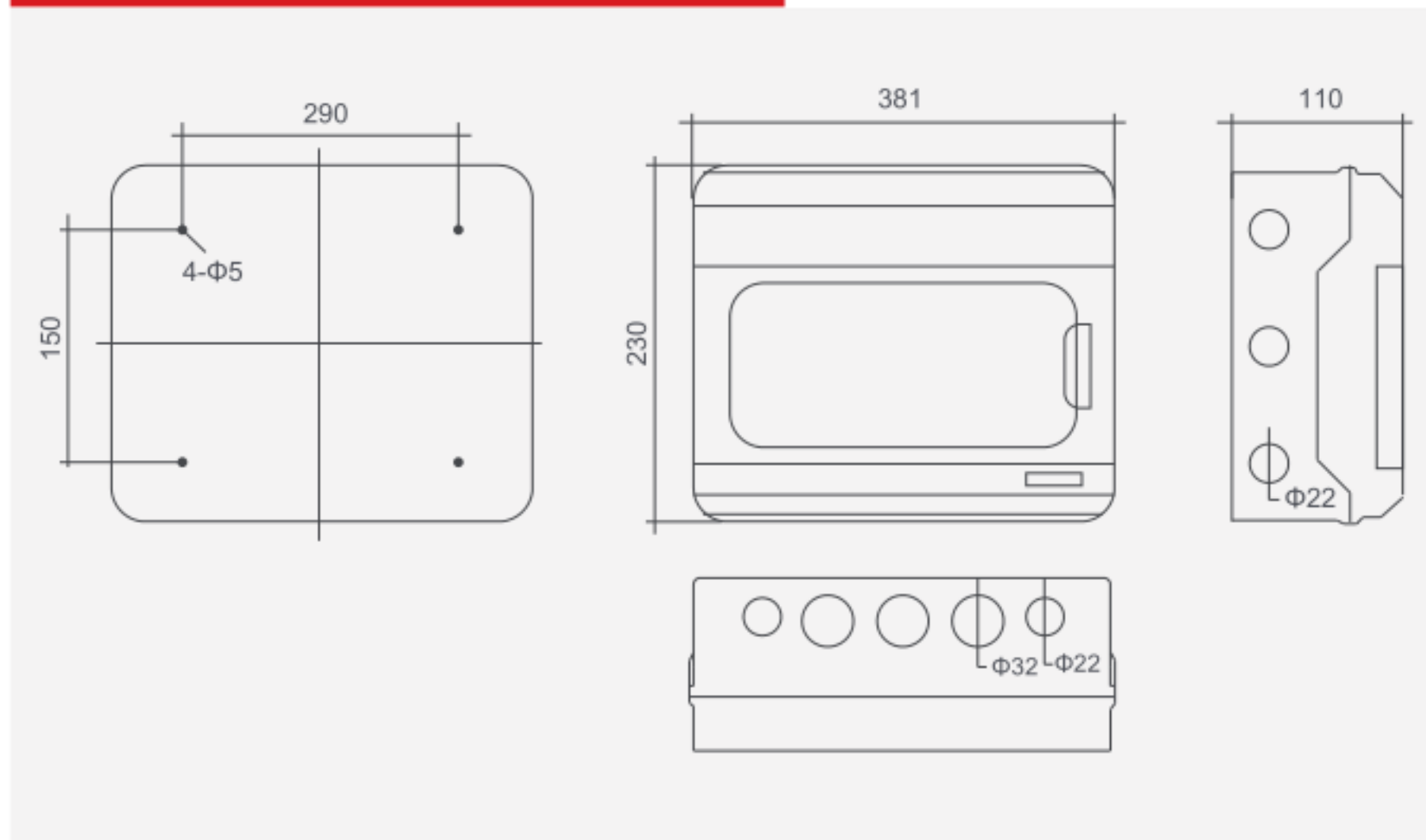
PV4/1 DC COMBINER BOX



Description

1518 4 DC combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 2 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Schematic



YCX8-1518

PV4/1 DC COMBINER BOX

TECHNICAL PARAMETERS

Name	SHLX-PV1/1	
	Electric parameter	
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	4	
Maximum output switch current	20A/32A	
Number of inverter MPPT	2	
Number of Output strings	2	
	Lightning protection	
Category of test	II Grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
Voltage protection level	2.8kV	3.8kV
Maximum continuous operating voltage U _c	630V	1050V
Poles	2P	3P
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
PV surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	PVC	
Installation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
Elevation of temperature	2km	
Permissible relative humidity	0-95%, no condensation	
	Mechanical parameter	
Width×High×Depth	381×230×110	

YCX8-1518

PV4/1 DC COMBINER BOX

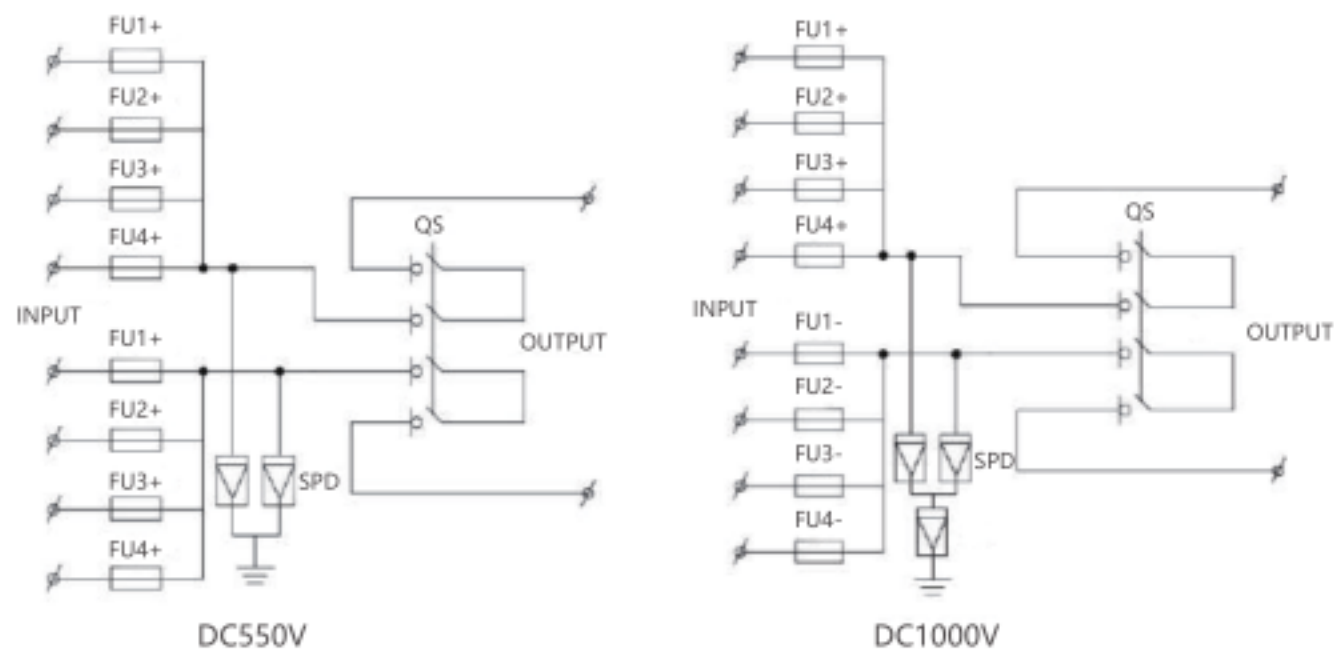
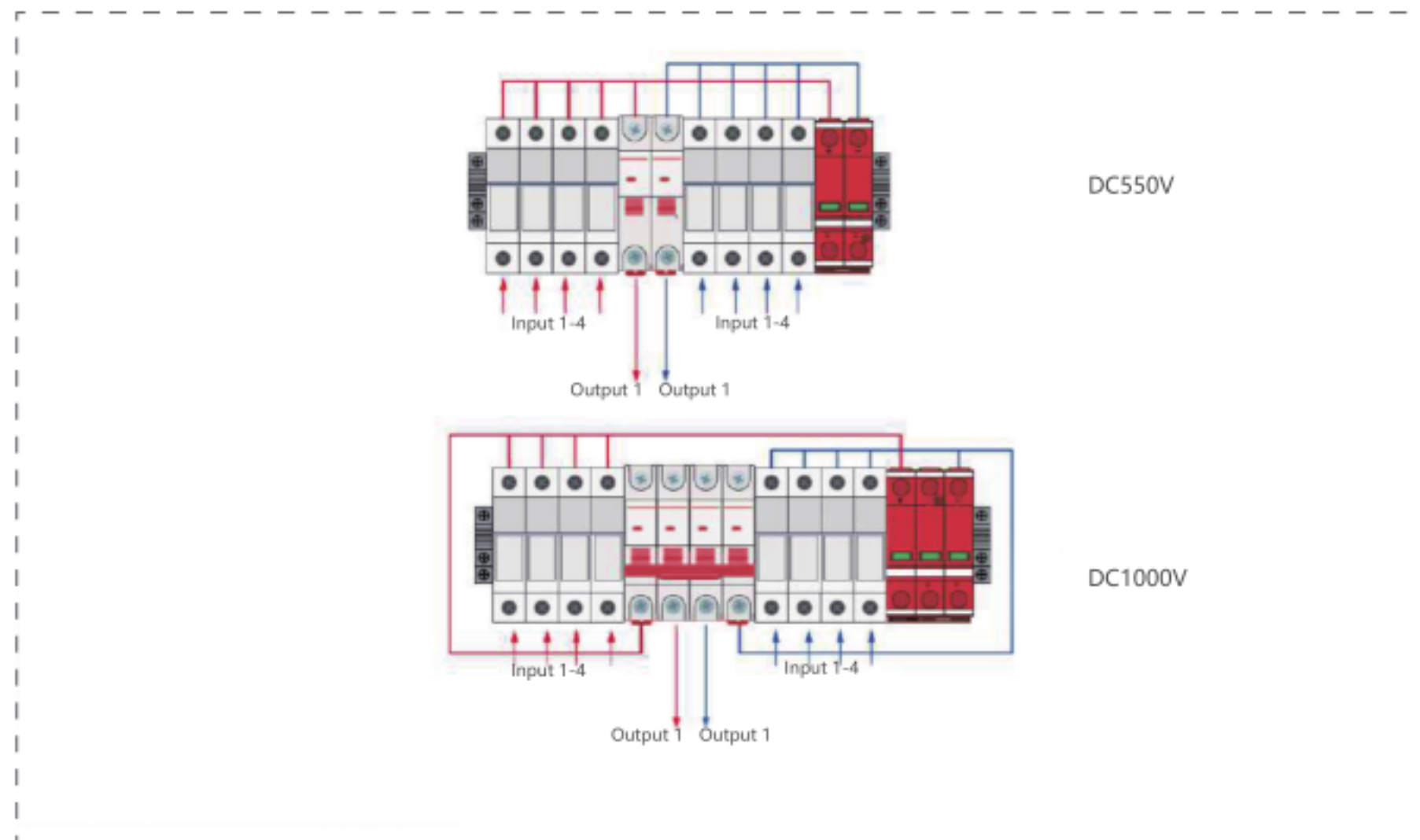
DESCRIPTION

PV4/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the " Technical specification for photovoltaic junction equipment " CGC/GF 037:2014.

Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

SCHEMATIC DIAGRAM



YCX8-1524

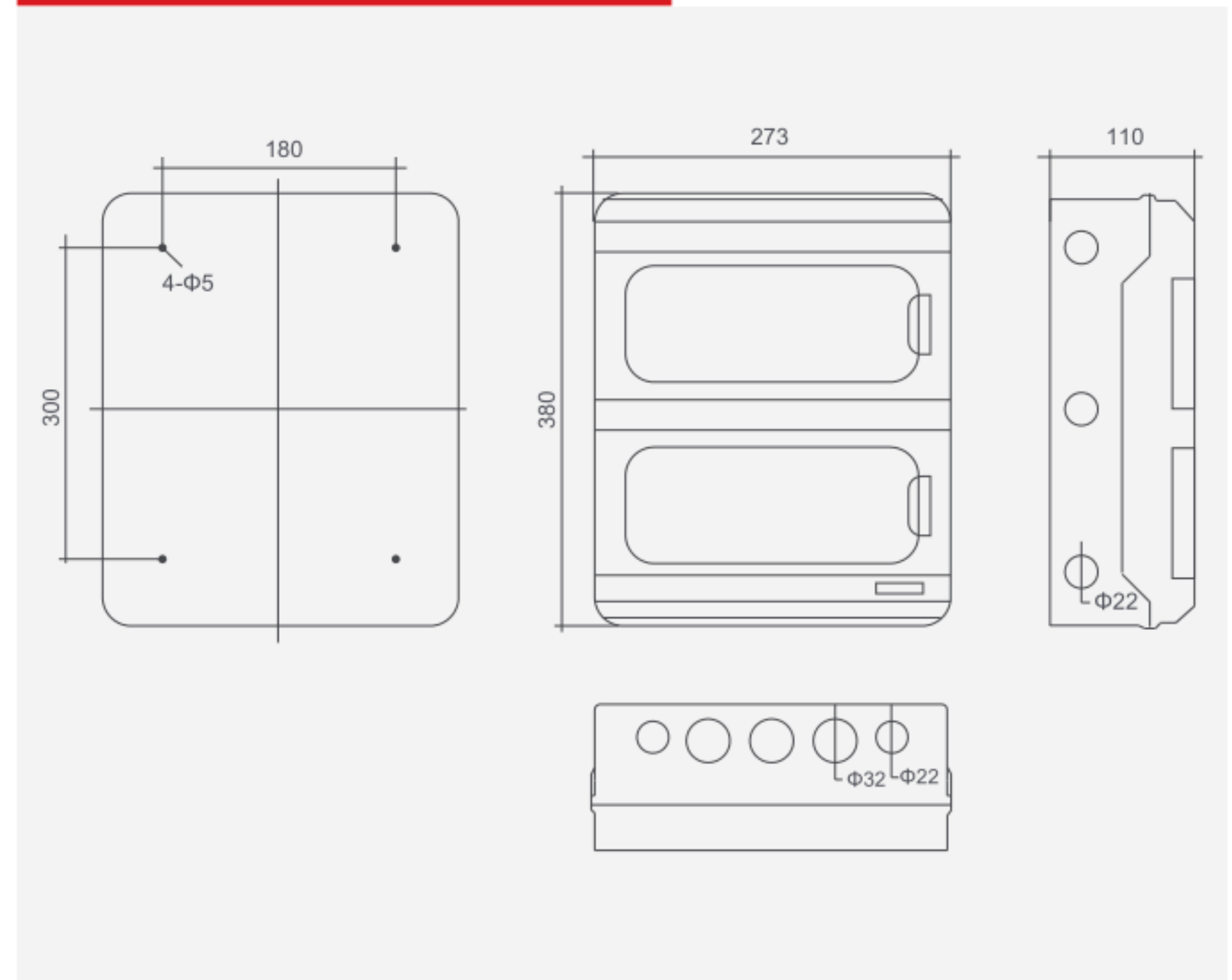
PV4/2 DC COMBINER BOX



Description

1524 4 DC combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 2 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Schematic



YCX8-1524

PV4/2 DC COMBINER BOX

TECHNICAL PARAMETERS

Name	SHLX-PV1/1	
	Electric parameter	
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	4	
Maximum output switch current	20A/32A	
Number of inverter MPPT	2	
Number of Output strings	2	
	Lightning protection	
Category of test	II Grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
Voltage protection level	2.8kV	3.8kV
Maximum continuous operating voltage U _c	630V	1050V
Poles	2P	3P
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
PV surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	PVC	
Installation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
Elevation of temperature	2km	
Permissible relative humidity	0-95%, no condensation	
	Mechanical parameter	
Width×High×Depth	273×380×110	

YCX8-1524

PV4/2 DC COMBINER BOX

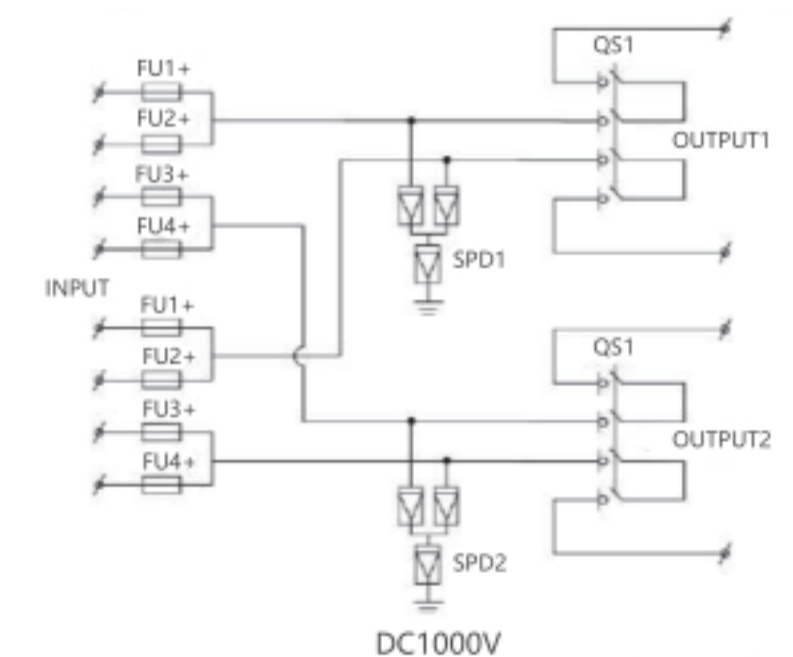
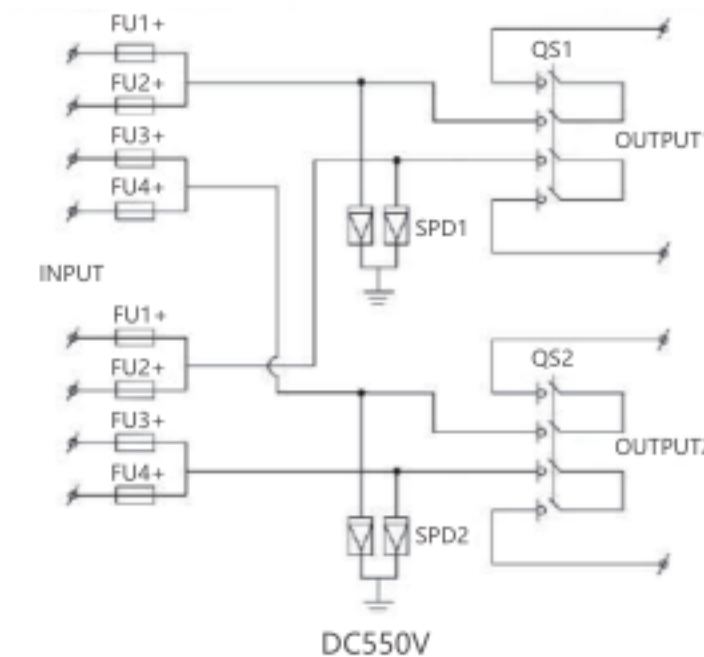
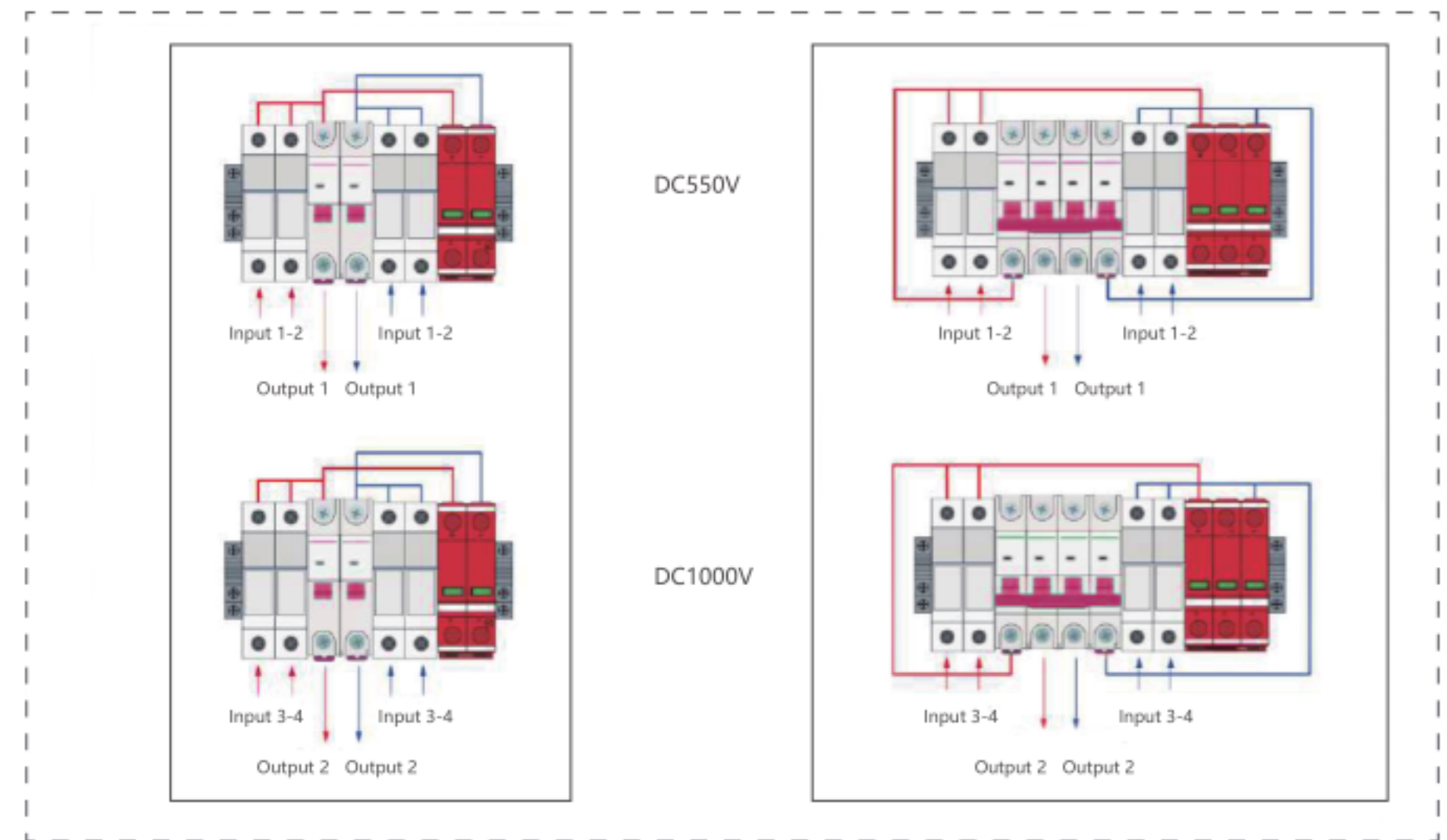
DESCRIPTION

PV4/2 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V,4 PV input channel, 2 output channel, double MPPT inverter).Box body is made of PVC engineering materials,with test for fire retardant,temperature rise,anti impact, anti ultraviolet,and other testng.IP65 protection grade.

Design and configuration strictly accordance with the " Technical specification for photovoltaic junction equipment " CGC/GF 037:2014.

Provide users with a safe,brief,beautiful and applicable photovoltaic system products.

SCHEMATIC DIAGRAM



YCDSC-DB / YCDSC-EL

DC ISOLATOR



Features

Non-polarity DC Isolator Switch

Panel Mounting, Distribution Board, Door Clutch Mounting or Plastic Enclosure optional.

Compact structure and modular design, levels with different Poles from 2 to 8 are available.

Parallel connections design, more big bore diameter makes connection fastness and flexibility.

Fast switching structure, arcing time normally occurs less than 3ms.

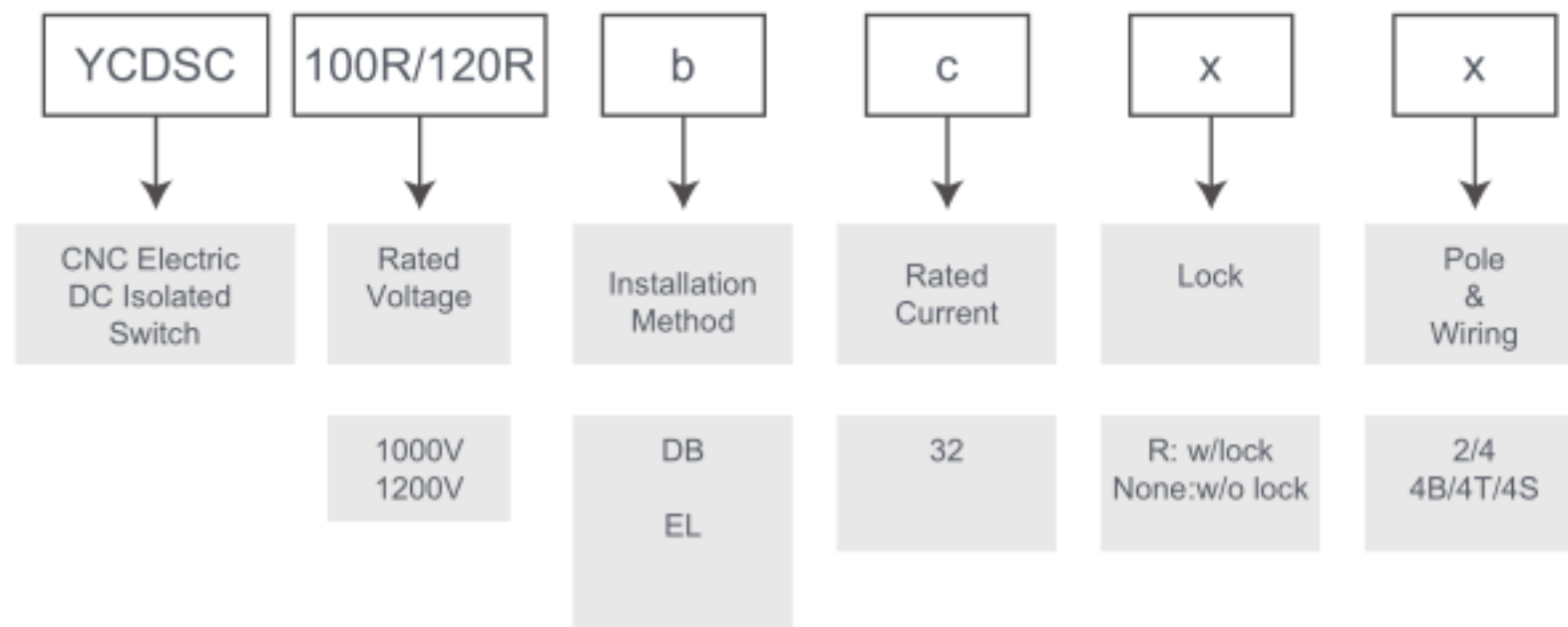
Self-cleaning contact mechanism, extending the lifespan of switch.

Dynamic sealing design and world class sealing materials guarantee an IP66 protection rate.

UL94V-0 standard flame resistant materials, the product can be full loading operation at temperatures -40 °C ~+70 °C.

DC 1500V insulation voltage design, with TUV, CE(IEC/EN60947-3:2009+A1+A2), SAA(AS60947.3), DC-PV1 and DC-PV2. certifications.

Select Code



YCDSC-DB / YCDSC-EL

DC ISOLATOR

Data according to IEC/EN60947-3:

2009+A1+A2, AS60947.3, Utilization category DC-PV1, DC-PV2

Main Parameters	YCDSC100R/120R-32(R)		
Rated insulation voltage	Ui	V	1500
Rated thermal current	Ith	A	32
Rated impulse withstand voltage	Uimp	V	8000
Rated short-circuit making capacity	Icw	A	1000

Maximum cable cross sections (incl. jumper)

Solid or standard	mm ²	4-16
Flexible	mm ²	4-10
Flexible (+ multicore cable end)	mm ²	4-10

Torque

Tightening torque terminal screws M4.	Nm	1.2-1.8
Tightening torque shell mounting screws ST4.2(304 stainless steel)	Nm	1.5-2.0
Tightening torque knob screws M3	Nm	0.5-0.7
Switching on or off Torque	Nm	0.9-1.3
The wiring Torque on Base	Nm	1.1-1.4

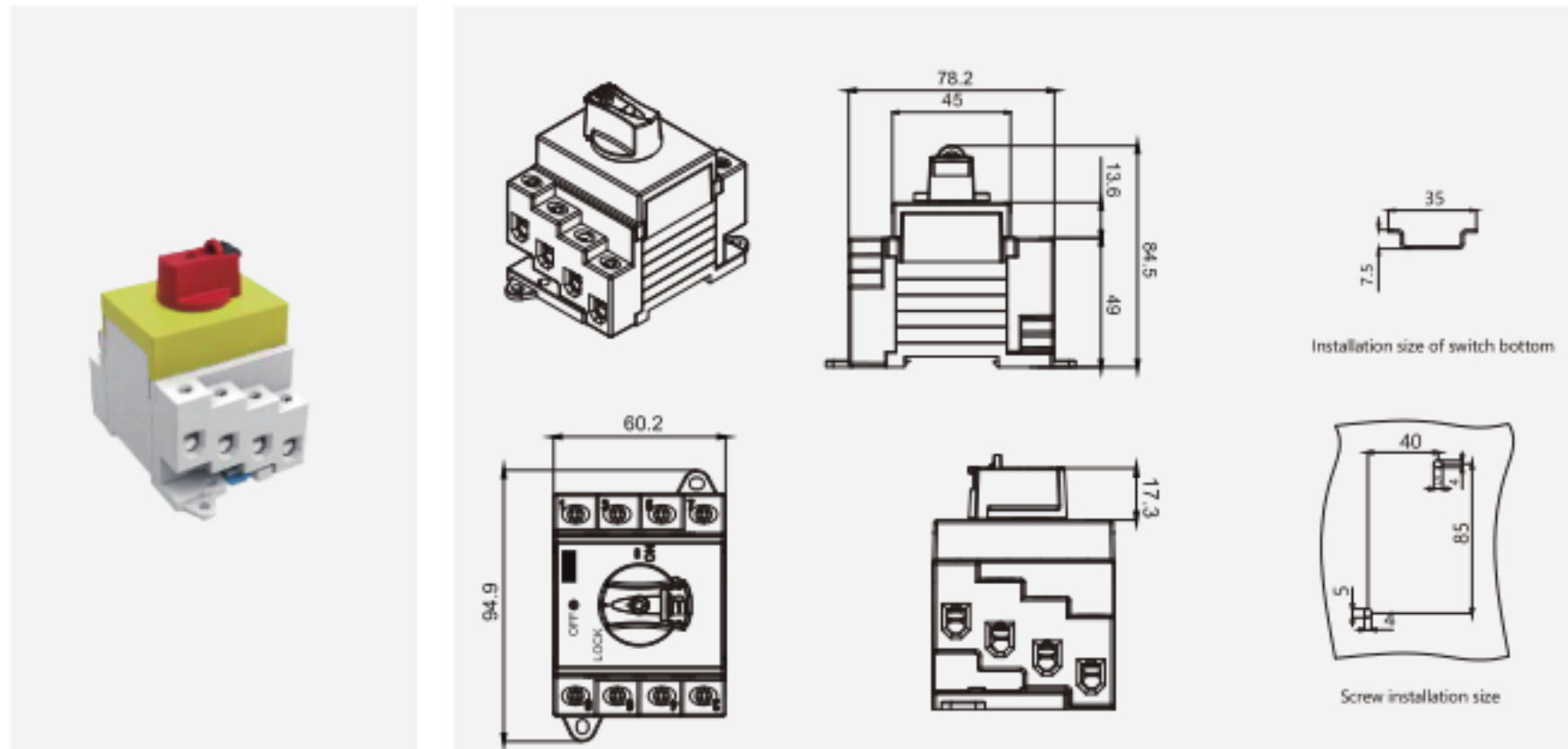
General parameters

Knob positions		OFF at 9 hr, ON at 12 hr (Optional OFF at 12 hr, ON at 3 hr)
Mechanical life		10000
Number of DC poles		2 or 4 (6, 8 optional)
Operation temperature		-40 to +85
Storage temperature		-40 to +85
Pollution degree	°C	2
Oversvoltage category	°C	III
IP rating of shafte and mounting nul		IP66

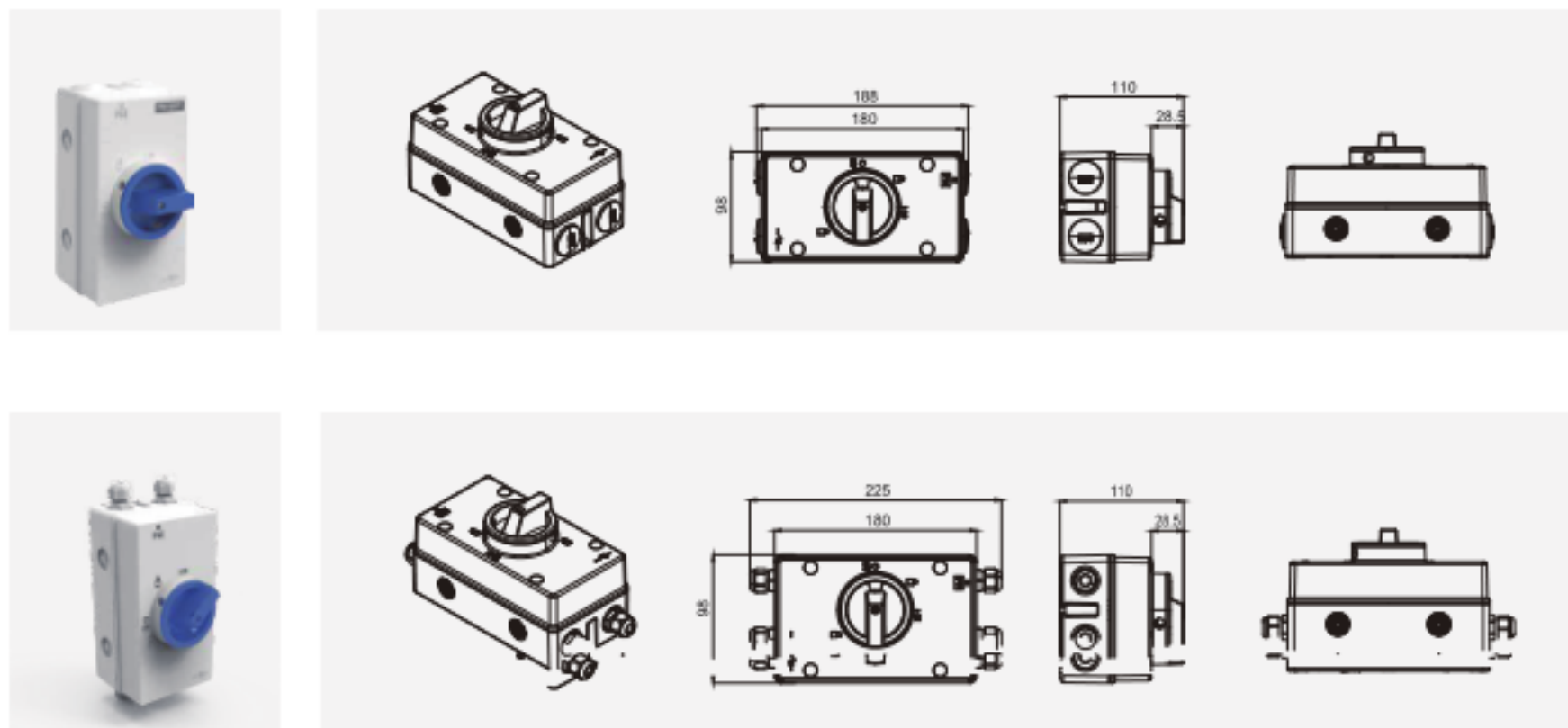
YCDSC-DB / YCDSC-EL

DC ISOLATOR

Dimensions



Dimensions



YCDSC-DB / YCDSC-EL

DC ISOLATOR

Technical Data

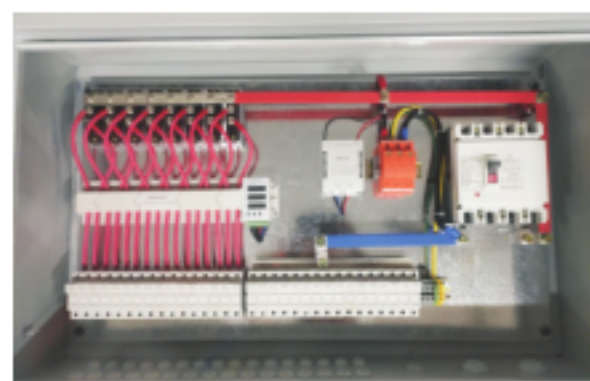
Data according to IEC/EN60947-3:2009+A1+A2, AS60947.3, Utilization category DC-PV1, DC-PV2										Poles	Number of Circuits	Model
300V		600V		800V		1000V		1200V				
PV1	PV2	PV1	PV2	PV1	PV2	PV1	PV2	PV1	PV2			
32	32	32	32	32	16	16	9	/	/	2	1	YCDSC100R-a32x-2
32	32	32	32	32	16	16	9	13	9	2	1	YCDSC120R-a32x-2
32	32	32	32	32	16	16	9	/	/	4	2	YCDSC100R-a32x-4
32	32	32	32	32	16	16	9	13	9	4	2	YCDSC120R-a32x-4
32	32	32	32	32	32	32	32	/	/	4	1	YCDSC120R-a32x-4S
32	32	32	32	32	32	32	32	32	32	4	1	YCDSC100R-a32x-4S
32	32	32	32	32	32	32	32	/	/	4	1	YCDSC120R-a32x-4B
32	32	32	32	32	32	32	32	32	32	4	1	YCDSC100R-a32x-4B
32	32	32	32	32	32	32	32	/	/	4	1	YCDSC120R-a32x-4T
32	32	32	32	32	32	32	32	32	32	4	1	YCDSC100R-a32x-4T

Switching Configuration

Type	2-Pole	4-Pole	4-pole with Input and Output on top	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
YCDSC100R/120R	2	4	4T	4B	4S
Contacts Wiring graph					
Switching example					

Photovoltaic DC Combiner Box

Photovoltaic Fuse

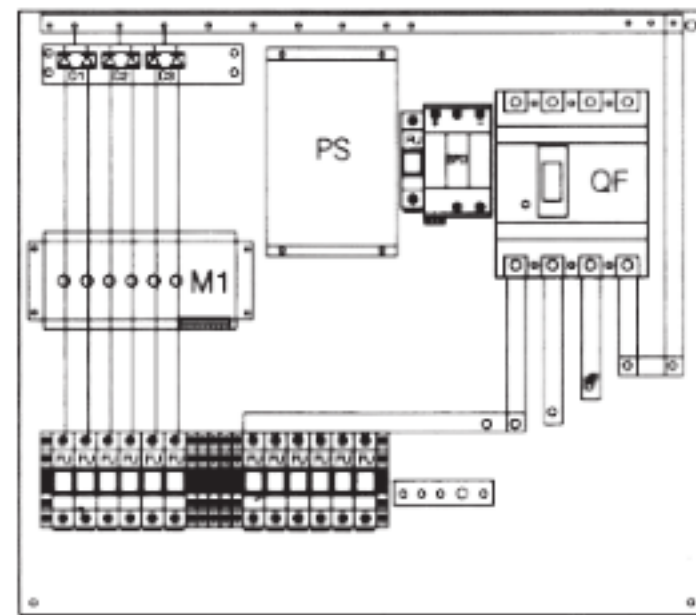


Use photovoltaic special DC surge protector.

The photovoltaic special DC circuit breaker is used, and the rated voltage can reach DC 1500V.

Strong adaptability

IP65 protection rating, waterproof, Dust and UV protection. Strict high and low temperature testing, Applicable to a wide area, easy installation, System wiring is simplified, Easy to wire. The box is made of a metal material such as cold rolled steel.



Overview

The input wiring of the DC power distribution cabinet and the inverter is greatly simplified. Provide lightning protection, short circuit protection and grounding protection.

The combiner box is divided into two types, intelligent and non-intelligent. The intelligent lightning protection combiner box is equipped with a sink monitoring unit. It can monitor the current input from each photovoltaic cell string, the summed output voltage, the temperature inside the box, the status of the lightning arrester, and the status of the circuit breaker. Design and configuration are strictly in accordance with the requirements of "Technical Specifications for Photovoltaic Confluence Equipment" CGC/GF 037:2014. Provide users with a security, concise, beautiful and suitable photovoltaic system products. The product is wall mounted and can be adapted to a variety of harsh environments. In addition to the relevant core components, other can be customized according to user requirements.

The CSPVB lightning protection combiner box combines the DC input and sink of 2,3,4,5,6,8,10,12,14,16,18,20,24,30,36,48 PV modules. Output, each fuse is equipped with a fuse, and the output is equipped with a lightning arrester and a circuit breaker.

Photovoltaic DC Combiner Box

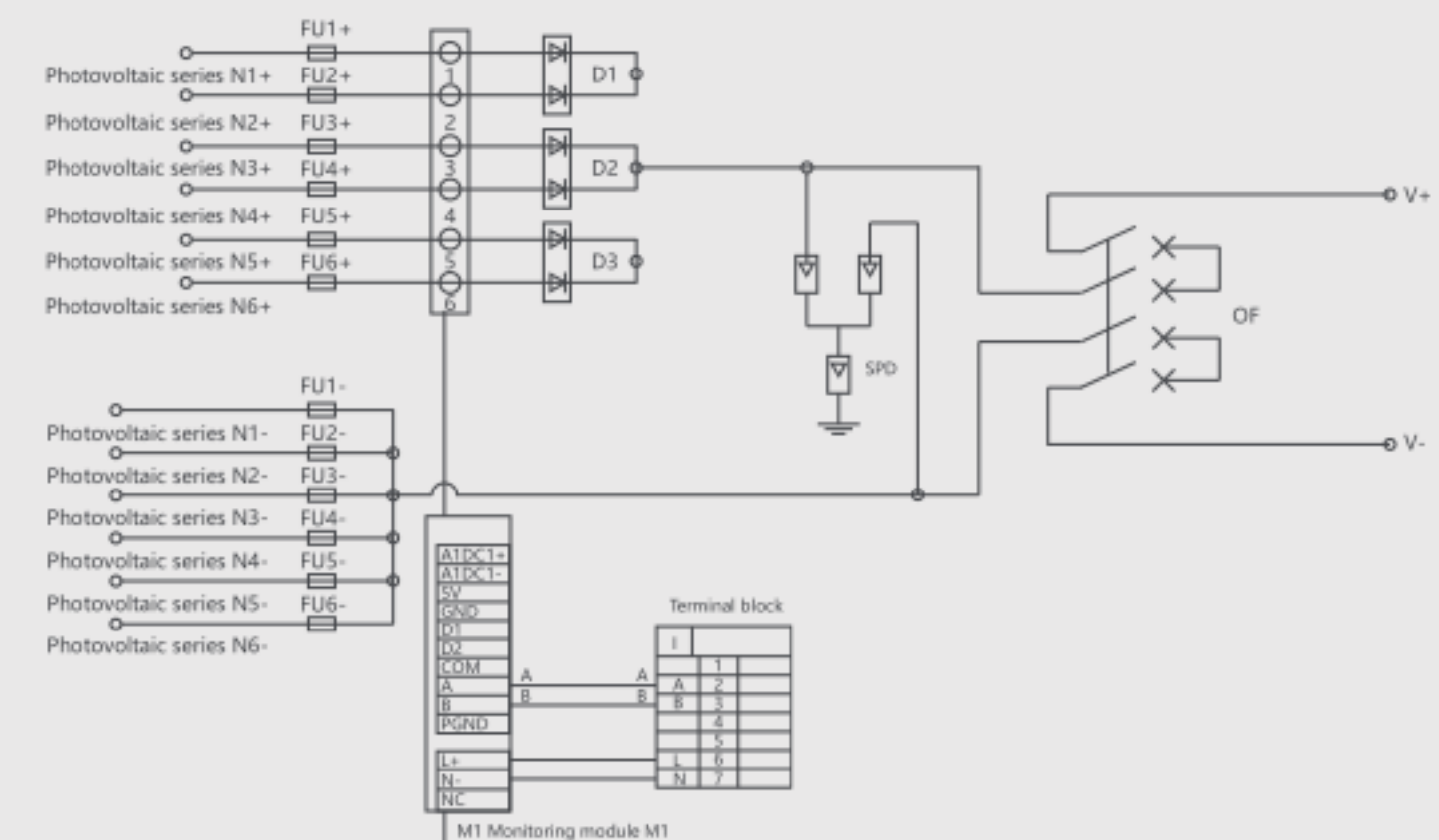
Photovoltaic Fuse

The main technical parameters

name	PVB
Electrical parameters	
System maximum DC voltage	1500V
Maximum input current per channel	15A
Maximum number of input channels	1~48
Maximum output switching current	800A
Number of inverter M PPT	N
Number of output channels	1
Lightning protection	
Test category	II
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage	1500V
Number of poles	2/3/4
Structural features	Pluggable module

name	PVB
System	
protection level level	IP65
Output switch	DC circuit breaker(standard)/ DC rotary isolating switch(optional)
SMC4 waterproof connector	Standard
Photovoltaic DC fuse	Standard
Photovoltaic DC fuse	Standard
Monitoring module	Optional
Ant reverse diode	Optional
Box material	Metal
Installation method	Wall-mounted
Operating temperature	-25°C~+55°C
Altitude	2000M
Allow relative humidity	0~95%,nocondensation

Schematic



YCB9-80DM

DC Circuit Breaker



+ CNC Electric Group Co.,Ltd.

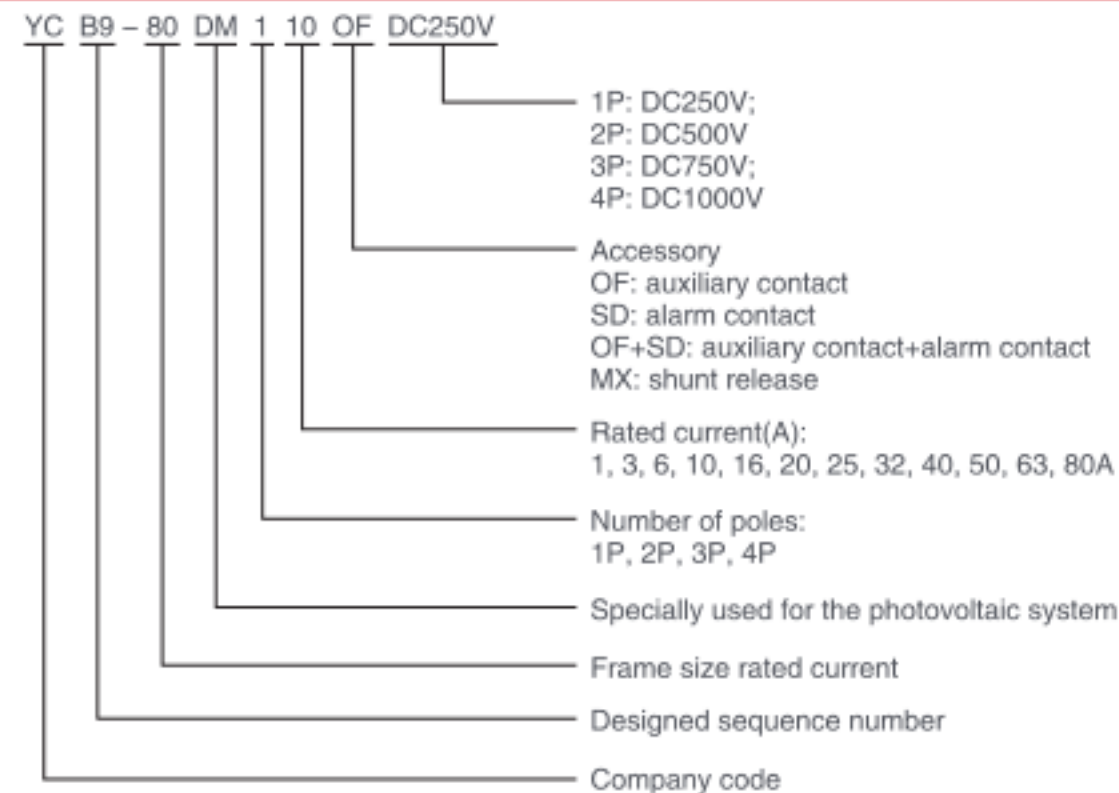
● Application

YCB9-80DM DC series circuit breaker is specially used for the photovoltaic system, it's rated working voltage can be up to DC1000V. The circuit breaker adopts a special extinguishing and current limiting system, which can quickly switch off the fault current of the DC distribution system, to protect photovoltaic module, the important component in solar power generation system from the harm of high DC reverse current and AC feedback current caused by inverter failure, and ensure the reliable operation of solar photovoltaic power generation system.

● Operation Conditions

- Ambient temperature: $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$, the average during 24 hours should not exceed $+35^{\circ}\text{C}$; if more than $+40^{\circ}\text{C}$ or less than -25°C , contact with manufacturer;
- The atmosphere condition: $\leq 95\%$
- Altitude: $\leq 2000\text{m}$, if exceed 2000m, altitude derating is required;
- Pollution degree: II

● Type Designation



YCB9-80DM

DC Circuit Breaker

Specifications

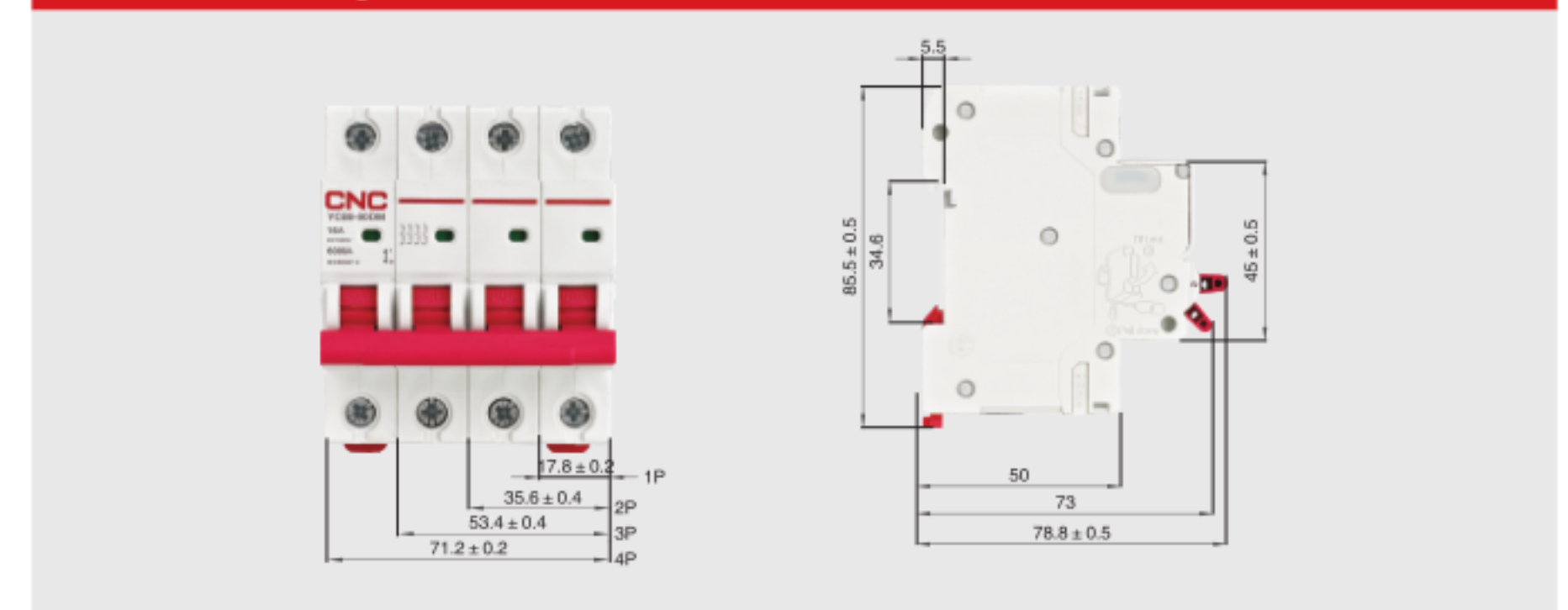
Model	YCB9-80DM			
Number of poles	1P	2P	3P	4P
Rated operational voltage(Ue)	DC250V	DC500V	DC750V	DC1000V
Rated current In(A)	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80			
Rated short circuit breaking capacity Icn(kA)(T=4ms)	6	6	6	6
Instantaneous tripping type	for power distribution			
Rated impulse withstand voltage Uimp(kV)	4			
Rated insulation voltage Ui(V)	1200			
Mechanical life (times)	20000			
Electrical life (times)	10000			
Accessory	Shunt release, Under voltage release			
Maximum wiring capacity	25mm ²			

Wiring Method for Ungrounded System

Circuit diagram	Fault influence			$\leq \text{DC}500\text{V}$	DC500-750V	DC750-1000V
	Fault A	Fault B	Fault C			
	No influence	Maximum short circuit I _{sc}	No influence			

Note: Up and down into the line, take the down into the line as an example to ensure that the installation method does not occur secondary ground fault.

Overall and Mounting Dimensions(mm)



YCS6 Surge Protector



+ CNC Electric
Group Co.,Ltd.

● Application

Surge protector is apply for new energy solar power generation system. The maximum continuous working voltage of DC500V, 1000V and 1200V. Installed on the DC circuit power system, the indirect lightning current, DC lightning current or other transient overvoltage protection when the system or other reasons due to lightning surge overvoltage protector, immediately nanosecond time rapid conduction, the over-voltage surges into the earth, so as to protect the electrical equipment online.

DC series is plug-in structure, module failure can be quickly replaced; lightning protection module failure, the indicate window color from green to red and send the alarm signal to the remote connection which in the remote communication terminal of alarm equipment (plus add remote device).

● Working Ambient

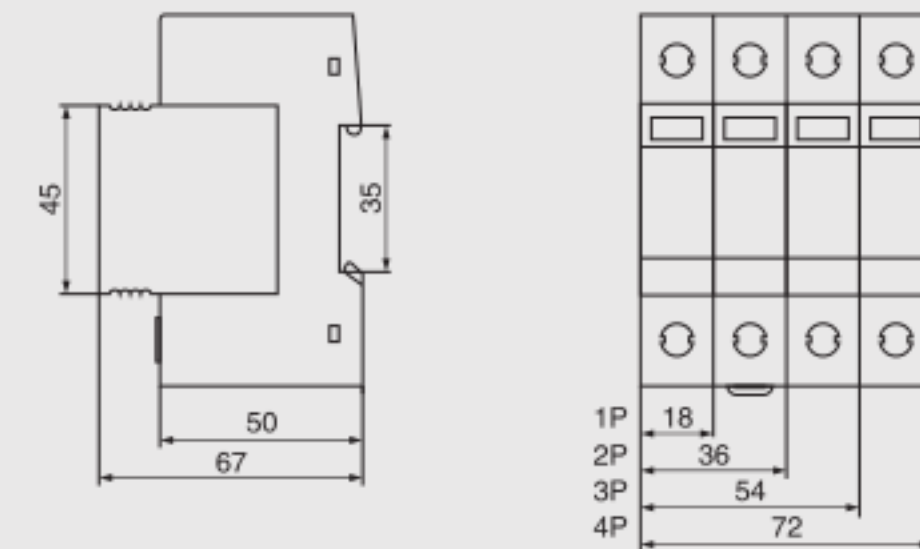
- ⊙ Ambient temperature is not higher than +40°C, not less than -25°C, relative humidity is not higher than 95%;
- ⊙ The location of the installation height of not more than 2000 meters;
- ⊙ The pollution level 3;

YCS6 Surge Protector

● Main Technical Data

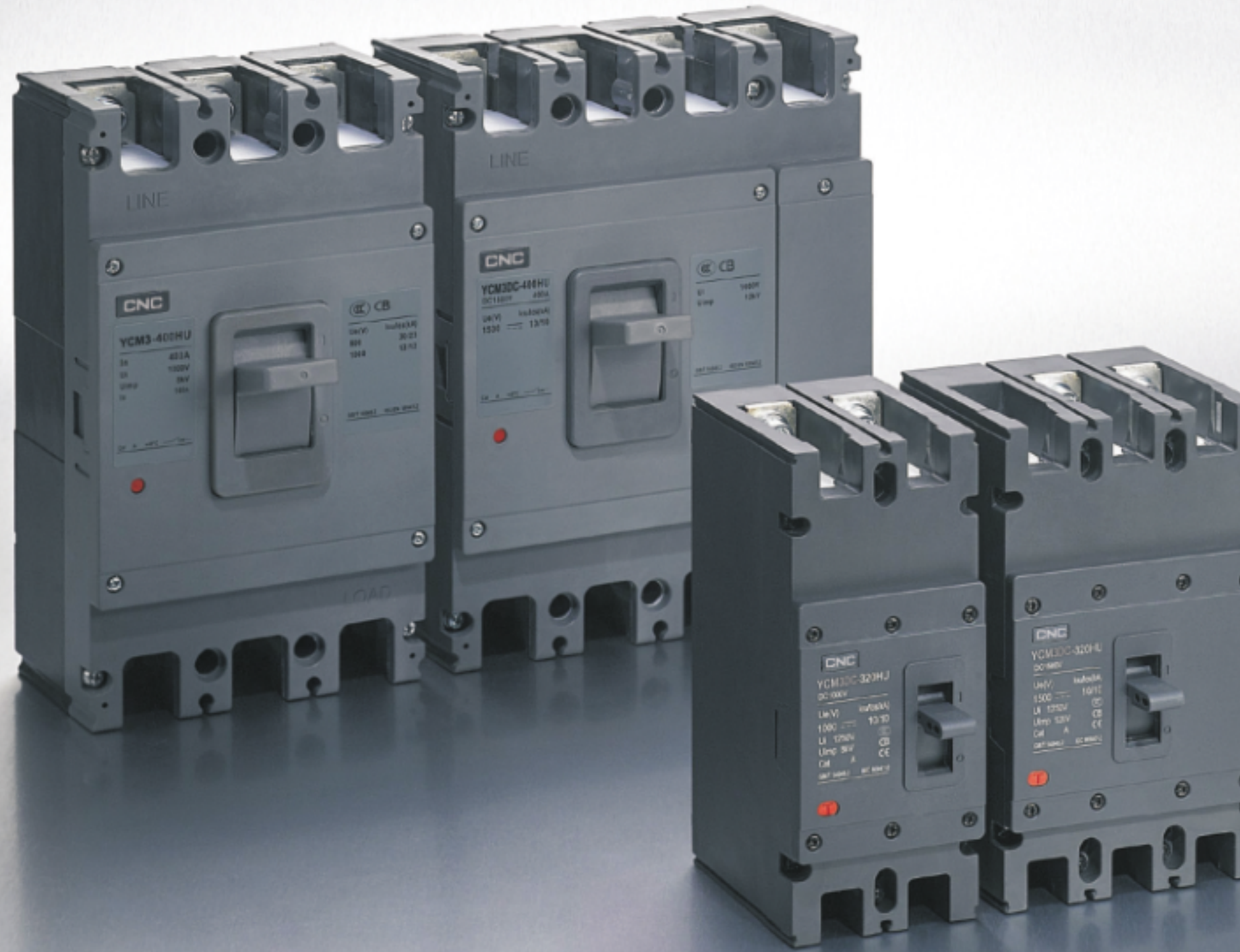
Type	YCS6-D20				YCS6-C40				YCS6-B60				YCS6-B80			
Maximum continuous operating voltage UC:(V)	500	800	1000	1200	500	800	1000	1200	500	800	1000	1200	500	800	1000	1200
Nominal discharge current In:(kA)	10				20				30				40			
Max discharge current Imax(kA)	20				40				60				80			
Voltage protect level Up(kA)	≤ 1.5	≤ 2.3	≤ 3	≤ 3.3	≤ 1.8	≤ 2.9	≤ 3.6	≤ 3.8	≤ 2.1	≤ 3.3	≤ 4.2	≤ 4.3	≤ 2.2	≤ 3.4	≤ 4.4	≤ 4.6
Corresponding time (ns)	< 25															
Working Temperature	Normal range: -5~+40°C; Extended Range: -40~+85°C															
Relative humidity	Indoor temperature conditions: 30% - 90%															
Indicate Window	Normal: Green; Failure: Red															
IP	IP20															
Leakage current 0.75U 1mA(uA)	≤ 20															
Poles	1P/2P/3P/4P															
Minimum cross-sectional L/N(mm ²)	2.5				4				4				4			
Minimum ground wire cross-sectional(mm ²)	4				6				6				6			
Fuse or circuit breaker selection(A)	32				32				63				63			
Installation	35mm Standard Din Rail															
Case Material	UL94-V0 Flame retardant plastics															

● Outline Dimension



YCM3 Series

new energy special molded case circuit breaker



Distribution Apparatus

YCM3 Series new energy special molded case circuit breaker

Product Features

YCM3 DC series molded case circuit breaker with rated voltage up to DC 1500 and current up to 400A.

YCM3 DC series molded case circuit breaker under DC1500v voltage is up to 20kA, which can reliably realize system short circuit.



Standard

YCM3 (HU) series AC / DC molded case circuit breakers meet the following standards

- IEC 60947-1 GB/T14048.1
- IEC 60947-2 GB/T14048.2



Applicable environment

1. The altitude of the installation site shall not exceed 2000m;
2. Able to withstand the influence of humid air (three prevention type);
3. It can withstand the influence of salt mist and oil mist (three prevention type);
4. Be able to withstand the influence of mold (three prevention type);
5. In the medium without explosion hazard, and there is no place where the medium has enough gas and conductive dust to corrode metal and damage insulation;

Note: ① three prevention products need special customization, please indicate .

Distribution Apparatus

YCM3 Series new energy special molded case circuit breaker

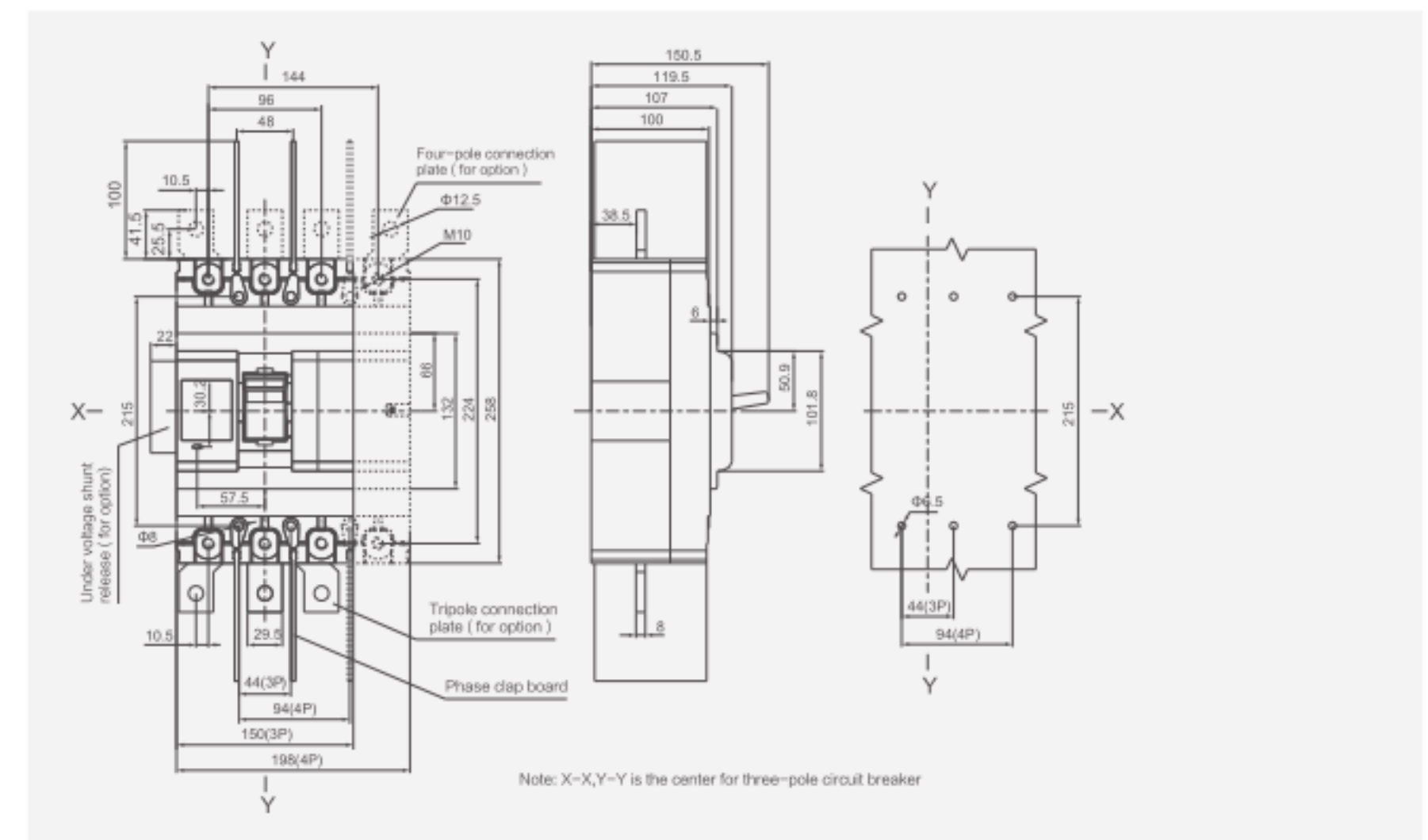
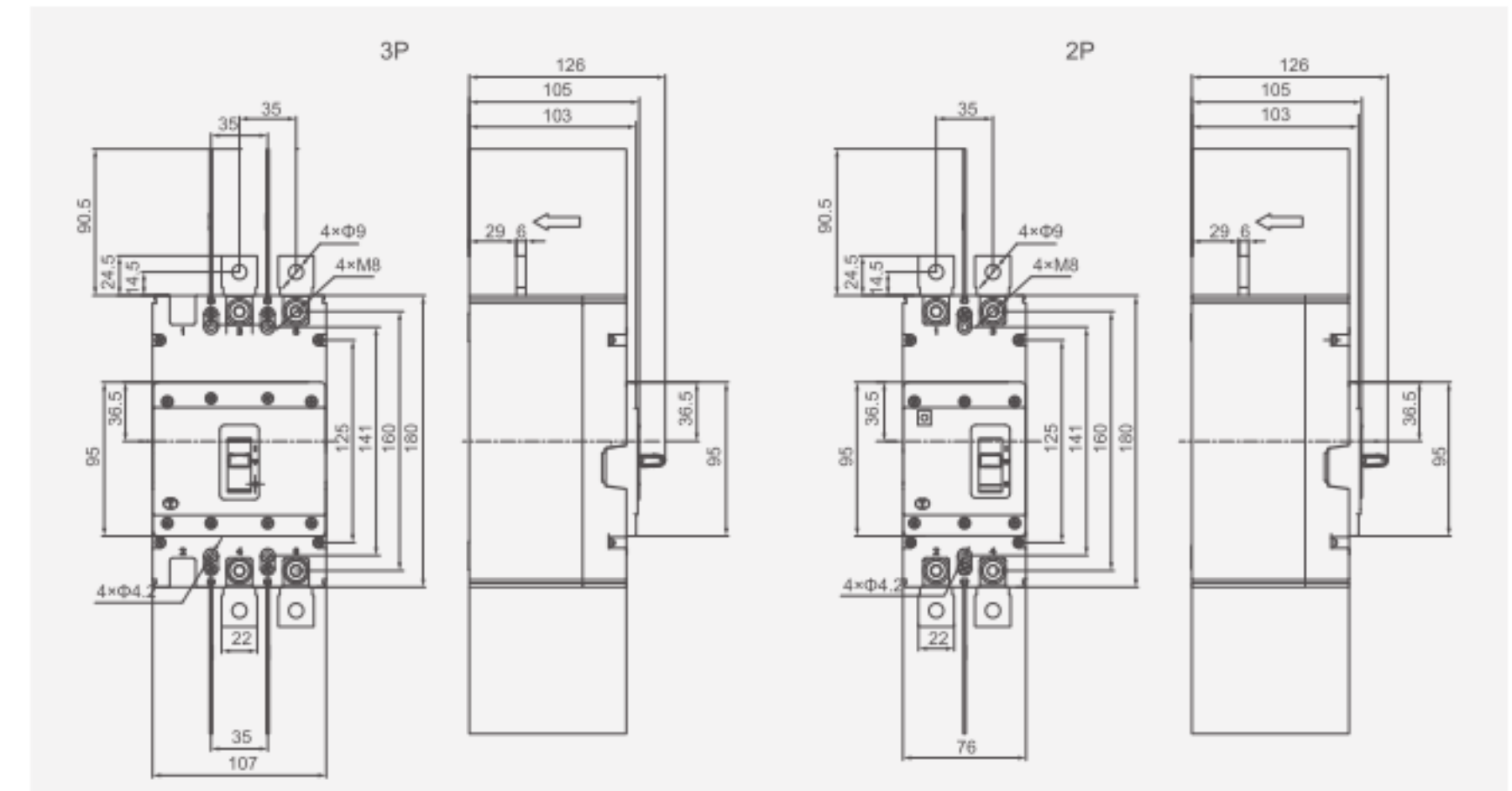
Specifications

Type	YCM3-320HU	YCM3-400HU		
Rated current I_n (A)	125,140,160,180,200,225,250,280,300,315,320	315,350,400		
Pole	3	4		
Rated working voltage U_e (V)	1000/1250/1500	1500		
Rated insulation voltage U_i (V)	1000/1250/1500	1500		
Rated impulse withstand voltage U_{imp} (V)	12000			
Rated ultimate short-circuit breaking capacity I_{cu} (kA)	20			
Rated working short-circuit breaking capacity I_{cs} (kA)	20			
Wiring method	Down incoming and down outgoing			
Mechanical life (total number of times)	10000			
Electrical life (total number of times)	2000			
Whether it has isolation characteristics	YES			
standard	IEC 60947-2、GB/T 14048.2			
Ambient temperature	-40~+70°C			
Protection grade	IP20			
Optional accessories	Auxiliary, alarm, shunt release, Hand operation, Electric operation			
Arc distance (mm)	≥50 (Zero arc, with arcing cover)			
Instantaneous action value	10I _n			
Dimensions (L×W×H)	L	180	180	258
	W	76(2P)/107(3P)	76(2P)/107(3P)	198
	H	105	105	107
installation mode	Fixed type, plug-in type			

Distribution Apparatus

YCM3 Series new energy special molded case circuit breaker

Overall and mounting dimensions(mm)



Distribution Apparatus

YCM3 Series new energy special molded case circuit breaker

Inner accessories

Accessory	Accessory code		Mounting and wiring mode		
	Magnetic only release	Compound release	NM1-125H,R NM1-250H,R	NM1-63S,H NM1-125C,S,H,R NM1-250S,H NM1-400S,H,R NM1-630S,H,R NM1-800H,R	NM1-1250H
			2P	3P 4P	3P
No accessory	200	300			
Alarm contact	208	308		●	
Shunt release	210	310	■	■	■
Auxiliary contact	220	320	○	○	○
Under-voltage release	230	330	▲	▲	▲
Shunt release, auxiliary contact	240	340	■	■	■
Shunt release, under-voltage release	250	350	■	■	■
Two groups of auxiliary contacts	260	360	○	○	○
Auxiliary contact, under-voltage release	270	370	○	○	○
Shunt release, alarm contact	218	318	■	■	■
Auxiliary alarm contact	228	328	○	○	○
Under-voltage release, auxiliary alarm contact	238	338	▲	▲	▲
Shunt release, auxiliary alarm contact	248	348	■	■	■
Two groups auxiliary contact of auxiliary alarm contact	268	368	○	○	○
Under-voltage release auxiliary alarm contact	278	378	▲	▲	▲

Note: ■Shunt release ▲Under-voltage release ○Auxiliary contact ●Alarm contact

RT18PV-32

Photovoltaic Fuse



RT18PV-32H

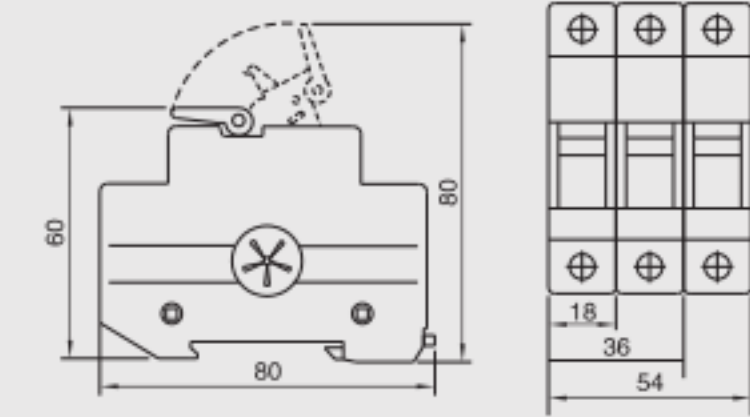
Photovoltaic Fuse



● Photovoltaic Fuse

- Rated Voltage: 1000VDC
- Class of Operation: gPV
- Standard: IEC 60269-6

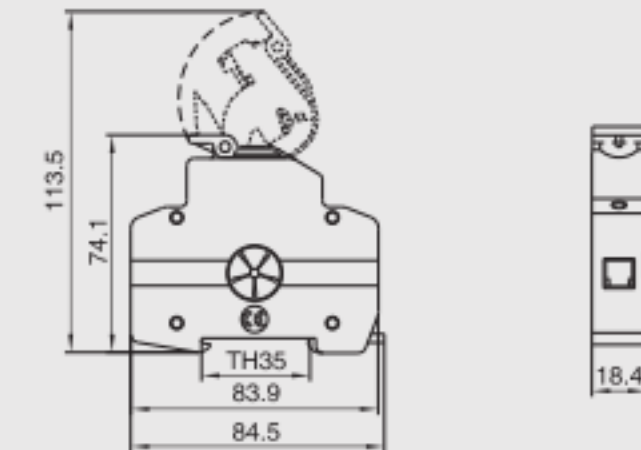
● Outline Dimension



● Photovoltaic Fuse

- Rated Voltage: 1000VDC
- Class of Operation: gPV
- Standard: IEC 60269-6

● Outline Dimension



RT18PV-63

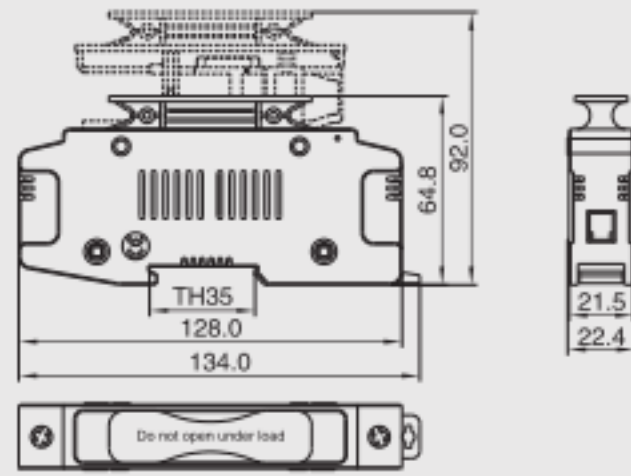
Photovoltaic Fuse



● Photovoltaic Fuse

- Rated Voltage: 1500VDC
- Class of Operation: gPV
- Standard: IEC 60269-6

● Outline Dimension



RT18PV-32

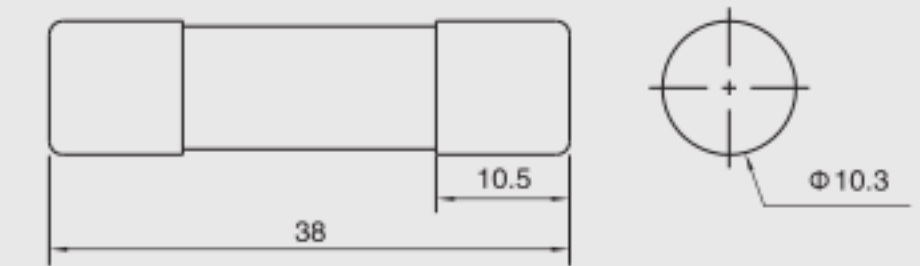
Photovoltaic Fuse



● Photovoltaic Fuse

- Rated Voltage: 1000VDC
- Fuse Size: 10 x 38mm;
- Class of Operation: gPV
- Standard: IEC 60269-6
- Breaking Capacity: 20kA
- Time Constant: 1-3ms

● Outline Dimension



● Specifications

Model	Rated current (A)	I ² T(A ² s)	
		Pre-arcing	Total
RT18PV-32	1	0.15	0.4
	2	1.2	3.3
	3	3.9	11
	4	10	27
	5	18	48
	6	31	89
	8	3.1	31
	10	7.2	68
	12	16	136
	15	24	215
	16	28	255
	20	38	392
	25	71	508
	30	102	821
32	176	976	

RT18PV-63

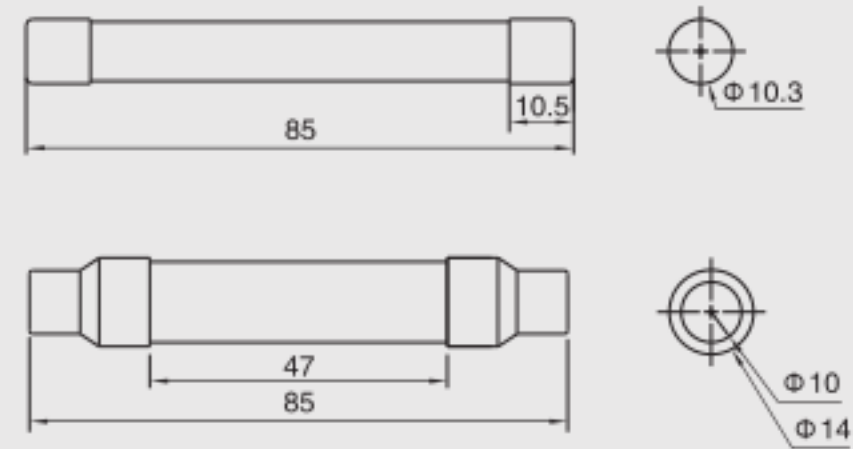
Photovoltaic Fuse



● Photovoltaic Fuse

- Rated Voltage: 1500VDC
- Fuse Size: 10 x 85mm 14 x 85mm
- Class of Operation: gPV
- Standard: IEC 60269-6
- Breaking Capacity: 20kA
- Time Constant: 1-3ms

● Outline Dimension



● Specifications

Model	Outline Dimension (mm)	Rated current (A)	I ² T(A ² s)	
			Pre-arcing	Total
RT18PV-63	10 x 85	2	4	8
		3	6	11
		4	8	14
		5	11	22
		6	15	30
		8	9	35
		10	10	98
		12	12	120
		15	14	170
		20	34	400
	25	65	550	
	14 x 85	30	85	680
		32	90	720
		40	125	800
50		155	920	

YCPV

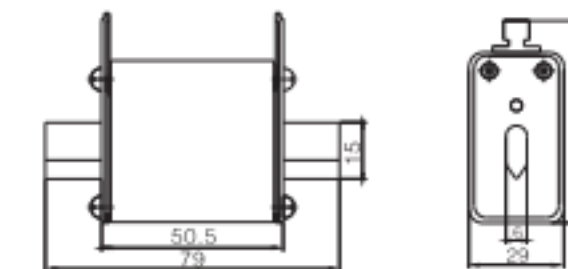
Photovoltaic Fuse

YCPV-H00	16-125A	1000V DC
YCPV-H1	32-200A	1000V DC
YCPV-H2	160-350A	1000V DC
YCPV-H3	250-500A	1000V DC

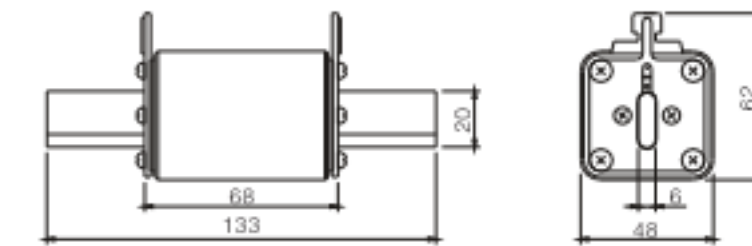
Photovoltaic Fuse

- Class of Operation: gPV
- Standard: GB/T 13539.6 IEC 60269-6
- Breaking Capacity: 50kA
- Time Constant: 1-3ms

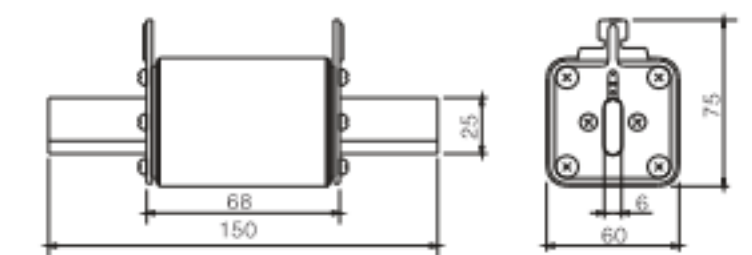
Dimensions—mm



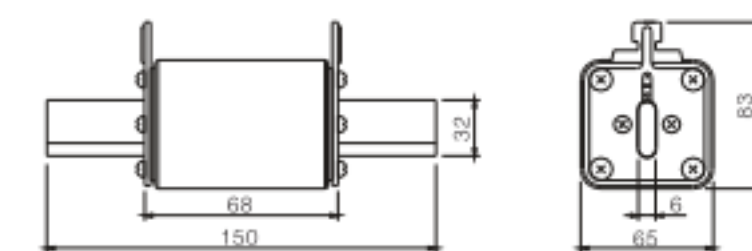
YCPV-H00



YCPV-H1



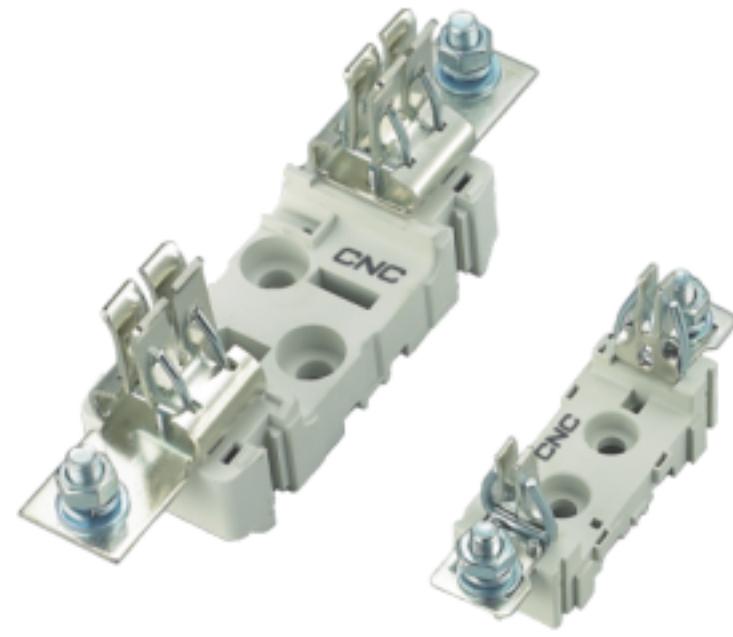
YCPV-H2



YCPV-H3

YCPV

Photovoltaic Fuse

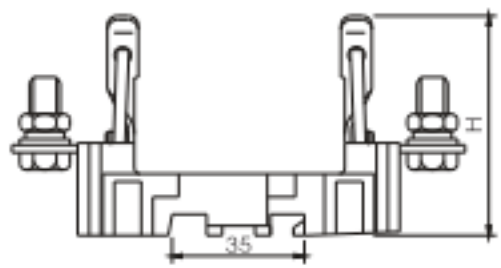


YCPV-H00B 1000V DC
 YCPV-H1B 1000V DC
 YCPV-H2B 1000V DC
 YCPV-H3B 1000V DC

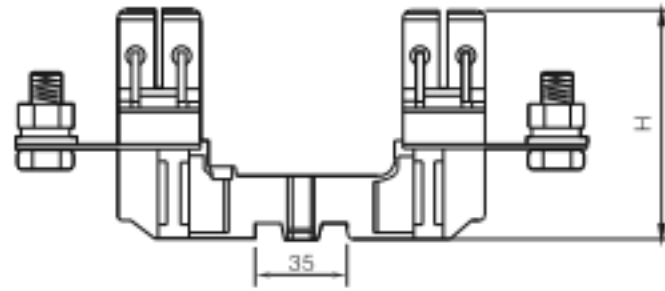
Photovoltaic Fuse

Rated Voltage: 1000V.d.c;
 Class of Operation:gPV
 GB/T 13539.6 IEC 60269-6

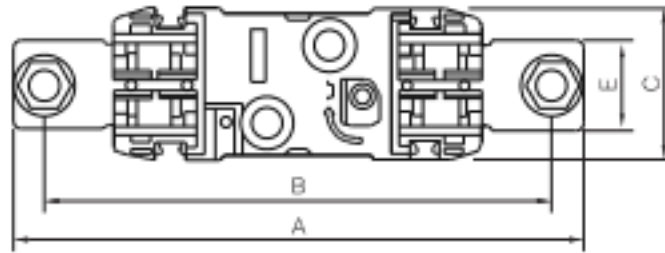
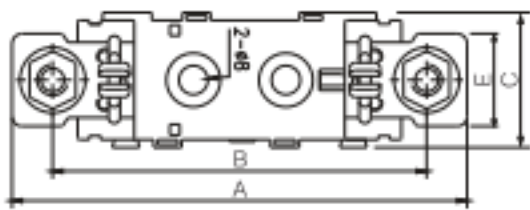
Dimensions—mm



YCPV-H00B



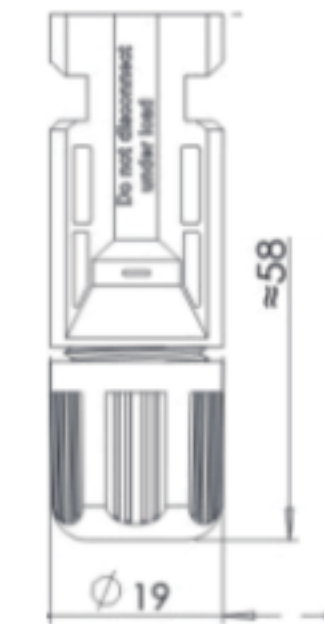
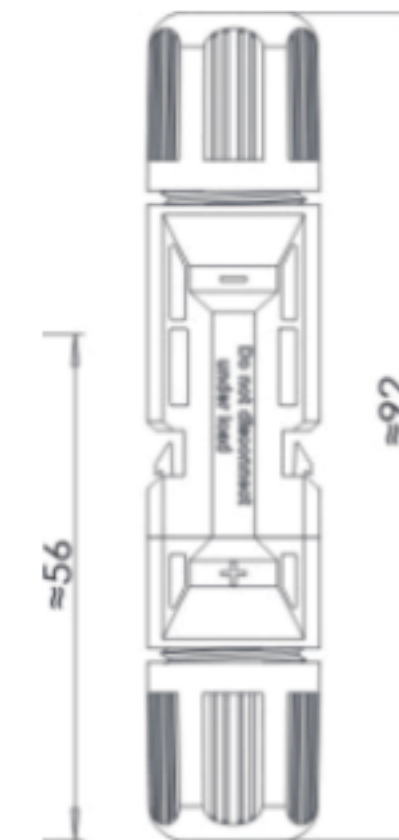
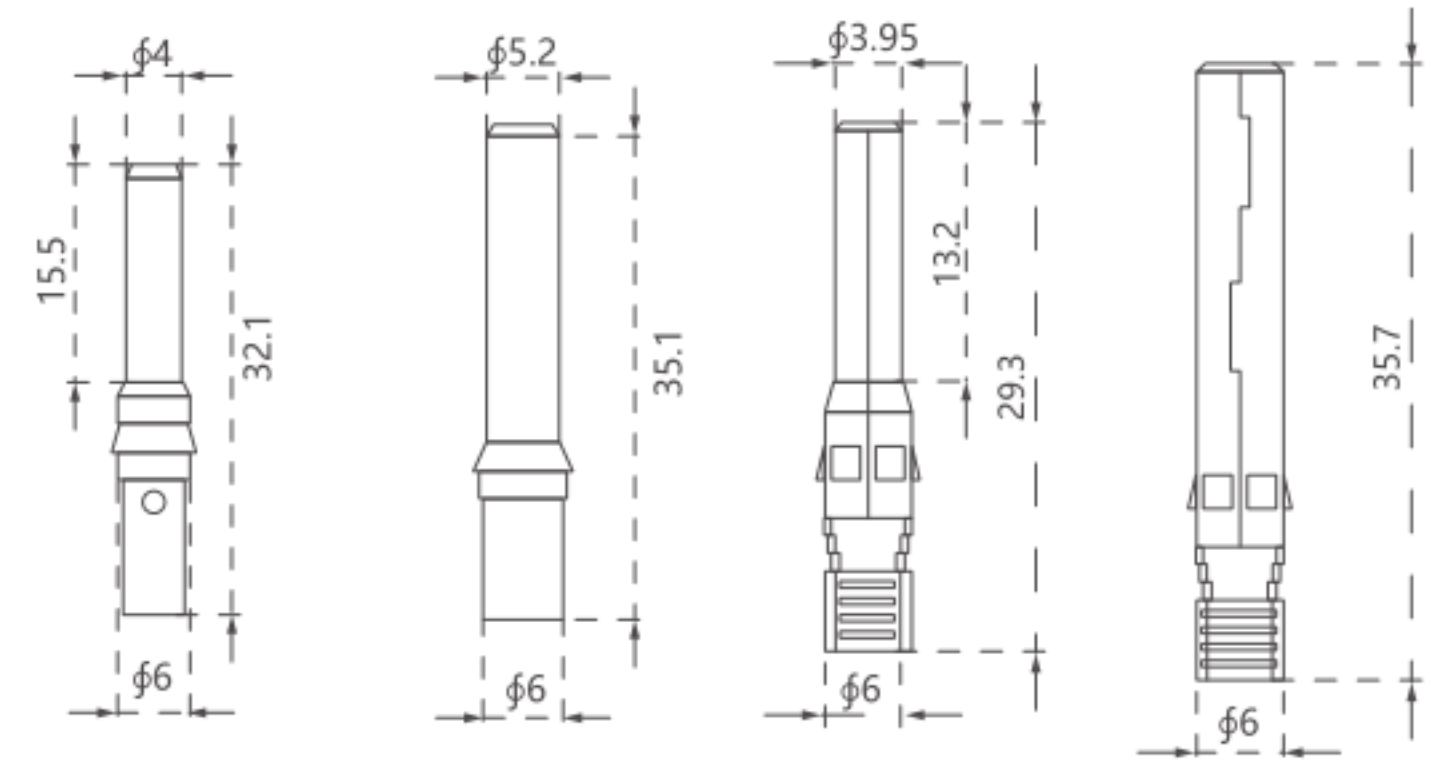
YCPV-1/YCPV-2/YCPV-3



Model	Applicable fuse link	Rated voltage (V)	Rated current (A)	Overall dimension/size				
				A	B	C	E	H
YCPV-H00B	YCPV-H00 NH00	1000V dc	125	119	102	35	23	57
YCPV-H1B	YCPV-H1 NH1	1000V dc	200	206	176	58	32	82
YCPV-H2B	YCPV-H2 NH2	1000V dc	350	224	198	58	35	89
YCPV-H3B	YCPV-H3 NH3	1000V dc	500	240	207	58	40	106

YC-SMC4(1000V)/YC-SMC4-1Q000V)

Solar DC Connector



YC-SMC4(1000V)/YC-SMC4-1Q000V)

Solar DC Connector

Technical data:

Connector system	φ4mm
Rated voltage	1000V DC(IEC)
Rated current	17A(t5mm2) 22A(2.5mm2;14AWG) 30A(4mm2;6mm2;12AWGz10AWG)
Test voltage	6kV(50HZJmin.)
Ambient temperature range	-40°C...+90°C(IEC) -40°C...+75°C(UL)
Upper limiting temperature	+105°C(IEC)
Degree of protection, mated	IP67
unmated	IP2X
Contact resistance of plug connectors	0.5mΩ
Safety class	II
Contact material	Messing, verzinkt Copper Alloy, tin plated
Insulation material	PC/PPO
Locking system	Snap-in
Flame class	UL-94-V0
Salt mist spray test, degree of severity 5	IEC 60068-2-52

YCPO Hybrid Solar Power Inverter(High PV Voltage)

Photovoltaic Fuse



Products Specification

Model	SDPO-3000W24V	SDPO-5500W□48V
Rated Power	3000W	5500W
Input	Input Voltage	230VAC
	Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
	Frequency Range	50hz or 60hz(auto sensing)
Output	AC Voltage Regulation	230VAC±5%
	Surge Power	6000VAC
	Efficiency	upto 93.5%
	Transfer Time	10 ms (For Personal Computers); 20 ms(For Home Appliances)
	Wave Form	Pure Sine Wave
Battery & AC Charger	Battery Voltage	24 VDC
	Floating Charge Voltage	27 VDC
	Overcharge Protection	33 VDC
Solar Charger	Max PV Array Voc	500 VDC
	Max PV Array Power	3000W
	Max Charge Current	100A
	Max Solar Charge Current	80A
	Max AC Charge Current	100A
Dimension(L*W*H)cm	100x300x440	
N.W./Unit(kg)	9	10