



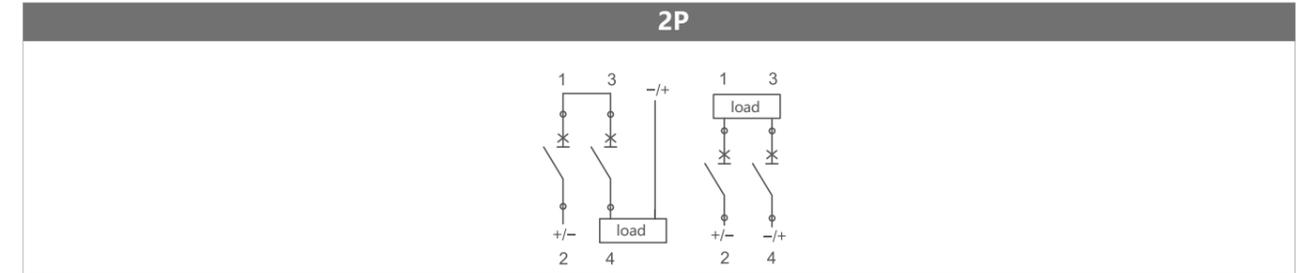
► Overview

Dc circuit breaker limited current performance, can accurately protect relay protection, automatic device from overload, short circuit and other faults. Advantages of current limiting and arc extinguishing capabilities of dc circuit breakers.

► Technical Specification

Pole		2P
Rated Working Voltage Ue		800V/1000V DC
Frame Current		63A
Rated Current In		63A, 50A, 40A, 32A, 25A, 20A,16A,10A
Rated Insulation Voltage Ui		800V/1000V
Rated Impulse Withstand Voltage Uimp		6kV
Tripping Characteristics		B/C
Tripping Type		Thermal Magnetic
Rated Ultimate Short-Circuit Breaking Capacity Icu		6kA
Rated Service Short-Circuit Interrupting Capacity Ics		6kA
Electrical Life	Actual	> 1500 Cycles
	Standard	300 Cycles
Mechanical Life	Actual	>10000 Cycles
	Standard	9700 Cycles
Overvoltage Category		III
Pollution Degree		3
Ingress Protection		IP40; Wiring port IP20
Resistance to humidity and heat		Class 2
Relative Humidity		≤ 95 %
Vibration		acc. to IEC60068-2-6
Shocks		acc. to IEC60068-2-27
Terminal capacity		2.5~35mm ²
Fastening Torque of Terminals		2.0~3.5 Nm
Ambient Temperature		-30°C~70°C
Storage Temperature		-40°C~85°C
Installation Method		DIN
Elevation		≤2000m
Dimension	Width:72mm	
	High: 87.5mm	
	Depth: 81mm	
Weight		0.12kg/Pole

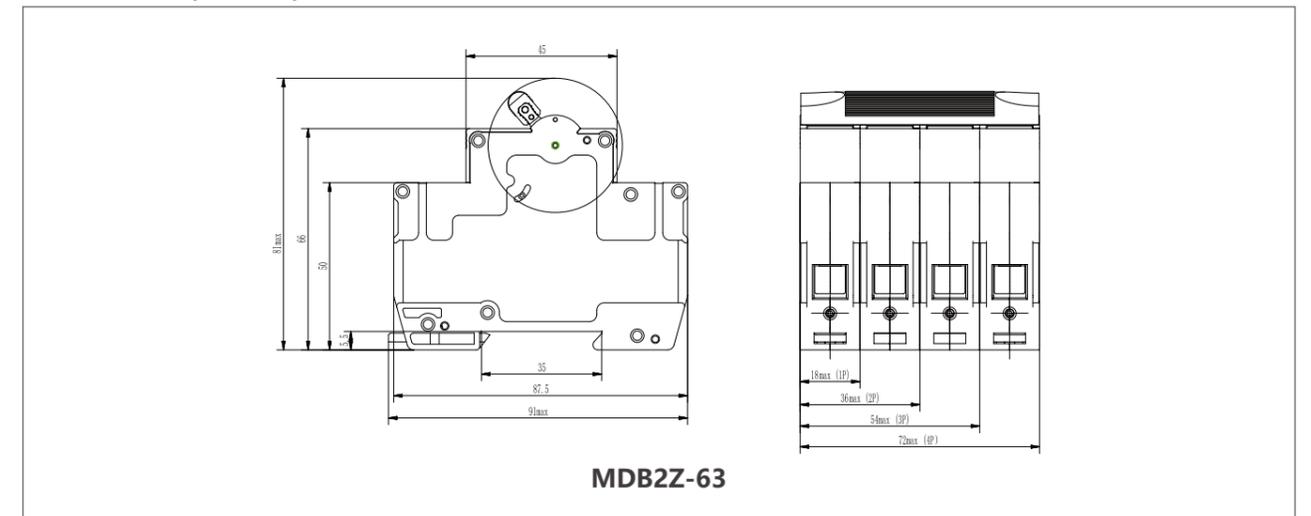
► Contact Configuration



► Standard time-current band

Test	Instantaneous release type	DC test current	Starting state	Tripping or non-tripping time limit	Expected results	Remarks
	B、C	1.13In	Cold state	$t \geq 1h(In \leq 63A)$	No tripping	/
b	B、C	1.45In	Followed by a test	$t < 1h(In \leq 63A)$	Tripping	The current rises steadily within 5S
c	B、C	2.55In	Cold state	$1s < t < 60s(In \leq 63A)$ $1s < t < 60s(In \leq 63A)$	Tripping	/
d	B、C	4In	Cold state	$0.1s < t < 45s(In \leq 32A)$ $0.1s < t < 90s(In \leq 32A)$	Tripping	Close the auxiliary switch to turn on the power
		7In		$0.1s < t < 15s(In \leq 32A)$ $0.1s < t < 30s(In \leq 32A)$		
e	B、C	7In	Cold state	$t < 0.1s$	Tripping	
		15In				

► Dimensions(unit:mm)





► Overview

Suitable for industrial, commercial, high-rise and civil residences circuit protection.

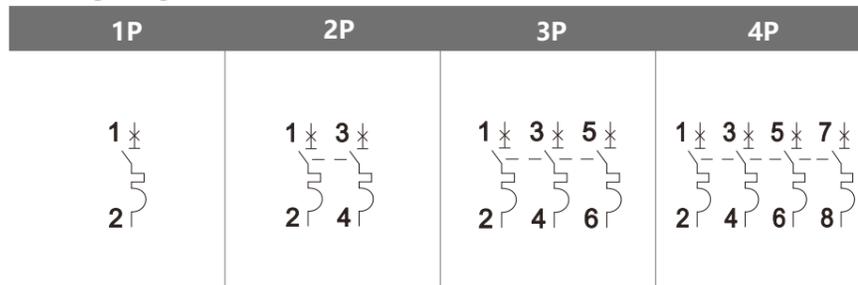
Features

- Up to 63A current rating
- Current limiting design
- Three levels of short-circuit protection ,categorized by B、 C and D curves.
- Captive screws cannot be lost
- Contact position indicator(red/green)
- Easy installation on DIN rail

► Technical Specification

Specifications	
Rated voltage(v)	230/400V(1P)、 400V(2P、 3P、 4P)
Rated current(A)	6、 10、 16、 20、 25、 32、 40、 50、 63
Poles	1P、 2P、 3P、 4P
Rated breaking capacity(A)	4500
Tripping characteristics	Table 1
Mechanical & Electrical life	4000
Tripping characteristics	B、 C、 D
Tightening torque (N·m)	2.5
Pollution Degree	2
Protection class	Ip20
Overvoltage category	II
Standards	IEC60898 -1、 GB/T10963 . 1
Compliant certification	CCC

► Wiring Diagram

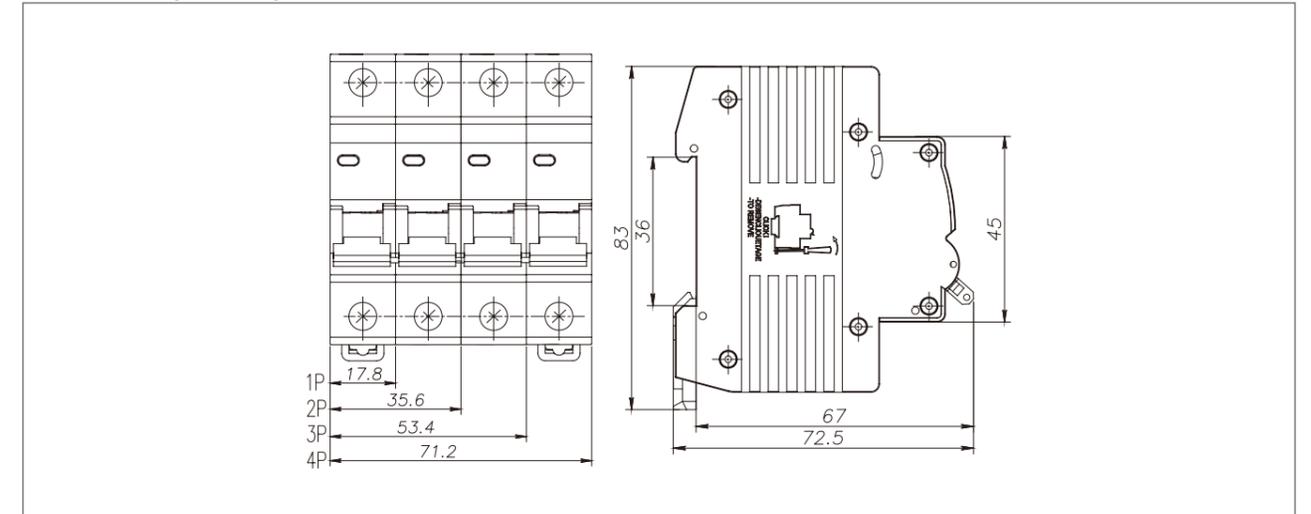


► Table 1: Tripping characteristics (Reference temp.30°C)

Item	Rated current(A)	Initial status	Test current In(A)	Time limit for tripping or non-tripping	Expected result	Remarks
Delay	≤63	Cold	1.13In	≤1h	Non-tripping	
Delay	≤63	Following previous test	1.45In	<1h	Tripping	Current smoothly rises to specified value within 5s
Delay	≤32	Cold	2.55In	1<t<60s	Tripping	
Delay	>32	Cold	2.55In	1<t<120s	Tripping	
Instantaneous	Any value	Cold	3、 5、 10In	≤0.1s	Non-tripping	B、 C、 D
Instantaneous	Any value	Cold	5、 10、 20In	<0.1s	Tripping	B、 C、 D

Note: The term "cold "means that the test is carried out at a reference calibration temperature without load before the test.

► Dimensions(unit:mm)





► Overview

Suitable for industrial, commercial, high-rise and civil residences circuit protection.

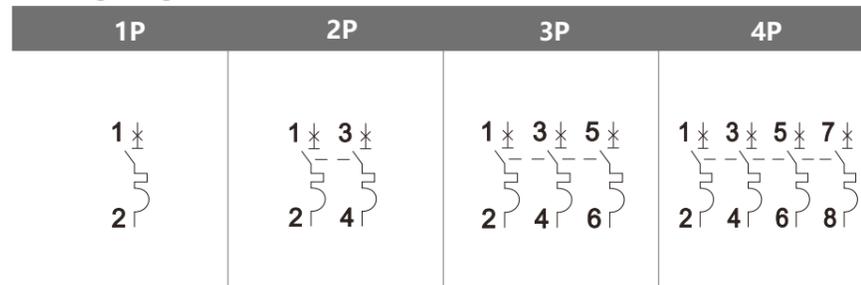
Features

- Up to 63A current rating
- Current limiting design
- Three levels of short-circuit protection ,categorized by B、 C and D curves.
- Captive screws cannot be lost
- Contact position indicator(red/green)
- Easy installation on DIN rail

► Technical Specification

Specifications	
Rated voltage(v)	230V(1P)、 400V(2~4P)
Rated current(A)	63A、 80A、 100A
Poles	1P、 2P、 3P、 4P
Rated breaking capacity Icn(A)	Icu=Ics=6000A
Rated impulse withstand voltage Uimp(V)	6000V
Tripping characteristics	Table 1
Mechanical & Electrical life	8500&1500(Operating frequency: 120 /h)
Pollution Degree	2
Tightening torque(N·m)	2.5
Protection class	IP20
Overvoltage category	II&III
Standards	IEC 60947-2 、 GB/T14048.2
Compliant certification	CCC

► Wiring Diagram

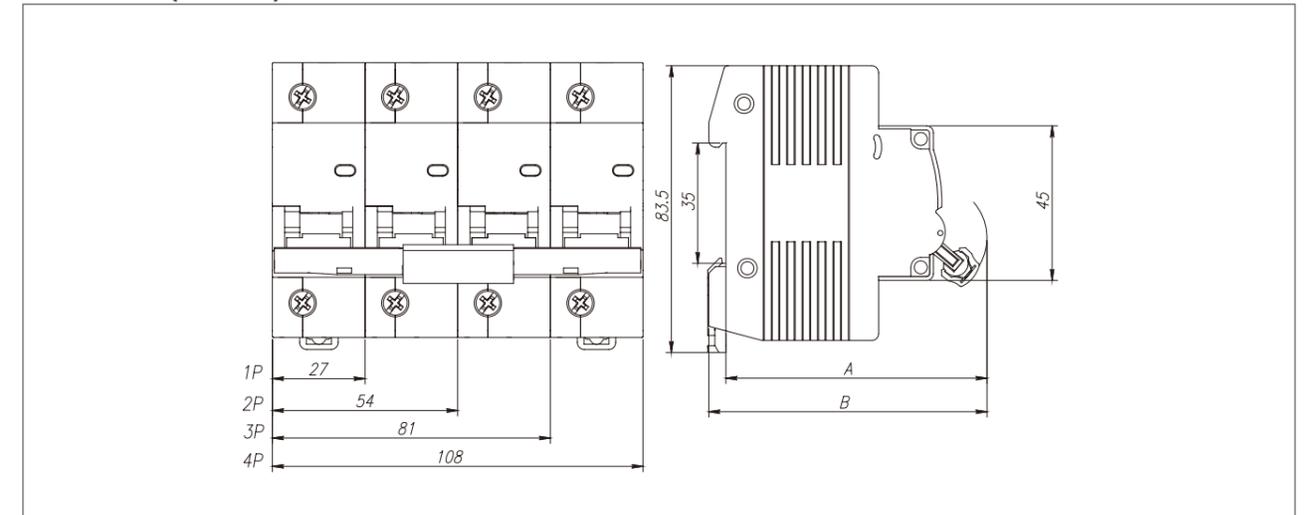


► Table 1: Tripping characteristics (Reference temp.30°C)

Item	Test current In(A)	Initial status	Time limit for tripping or non-tripping	Expected result	Remarks
a	1.05In	Cold	t≤1h (In≤63A) t≤2h (In≥63A)	Non-tripping	
b	1.3In	Following Item a test	t<1h (In≤63A) t<2h (In≥63A)	Tripping	Current smoothly rises to specified value within 5s
c	2In	Cold	0<t<300s	Tripping	
d	8In	Cold	t≤0.2s	Non-tripping	
e	12In	Cold	t<0.2s	Tripping	

Note: The term "cold "means that the test is carried out at a reference calibration temperature without load before the test.

► Dimensions(unit:mm)





► Overview

MDB7-100ARD electric energy meter external circuit breaker (hereinafter referred to as circuit breaker) is suitable for AC 50Hz, rated working voltage up to 400V, rated current to 100A, long-distance control breaking or closing operation of the line, at the same time The line acts as an overload and short circuit protection, and can also be used as an infrequent operation conversion of the line. At present, it is widely used in intelligent prepaid meters to control the closing and breaking of lines.
Meet the standard: GB10963.1, IEC60898-1.

► Electrical performance

Project	Parameter	Project	Parameter
Number of poles	2P、4P	Instantaneous trip type	C
Features	Short circuit protection, overload protection, isolated, remote split/close control	Rated short-circuit breaking capacity	$I_{cs}=I_{cn}=6000A$
Rack rated current value I_{nm}	100A	Mechanical life	10000
Rack rated current value I_{nm}	230V AC(2P)/400V AC(4P)	Electrical life	6000
Rated current I_n	32A, 40A, 50A, 63A, 80A,100A	Overcurrent tripping characteristics	See Table 1 and Figure 1

Remote control function

Project	Parameter	Project	Parameter
Closing time	$t_c \leq 3s$	Split/close switch	Phase line power
Power-on delay	$t_d \leq 4s$	Phase leakage current	$I_L \leq 0.2mA$
Control level voltage	220V AC \pm 30%	Control signal indicator	Have
Control level current	$I_c \leq 1mA$	Feedback signal	Have
Closing module power take-off mode	Take power before the control line meter, take power after closing/opening the short timetable	Split/close operation mode	Built-in shaft drive

► Overview

PV plastic smart circuit breakers (hereinafter referred to as: circuit breaker) is a circuit breaker integrating residual current relay, contactor and molded case circuit breaker. It is suitable for three-phase four-wire neutral point grounding power supply and demand system. Or the ground fault of the electrical equipment, over current, short circuit, phase loss and over voltage protection. It can also prevent electrical fires and electrical equipment damage caused by ground faults of electrical circuits or electrical equipment and provide indirect contact protection for personal electric shock hazards.
The product complies with the GB14048.2-2008 GB/T22387-2008 standard.
The photovoltaic molded case intelligent circuit breaker is equipped with RS485 serial interface, which can set the protection characteristic parameters through the programmer, and can meet the requirements of communication networking.



► The main technical parameters

Specification model	MDM8L-125	MDM8L-250	MDM8L-400	MDM8L-630	MDM8L-800
Rated Voltage(V)	380V	380V	380V	380V	380V
Shelf current $I_n(A)$	125	250	400	630	800
Rated current I_r (standard type)	40、63、80、100、125	100、160、200、250	250、315、350、400	400、500、630	630、700、800
Rated current I_r (electronic)	(0.4-1.0) $\times I_n$ +off (can be adjusted every 0.1 I_n)				
Rated ultimate short-circuit breaking capacity I_{cu} (kA)	30	35	50	65	65
Rated operating short-circuit breaking capacity I_{cs} (kA)	15	22	35	42	42
Rated residual short-circuiting (breaking) capability $I_{\Delta n}$ (kA)	7.5	8.75	12.5	16.25	16.25
Rated residual operating current $I_{\Delta n}$ (standard type)	75mA/150mA/300mA/500mA		100mA/200mA/300mA/500mA	100mA/300mA/500mA/800mA	
	Leakage alarm, automatic tracking				
Rated residual operating current $I_{\Delta n}$ (electronic)	50mA/100mA/300mA/500mA/800mA/1000mA/leakage alarm, automatic tracking				
Rated residual non-operating current	0.5 $I_{\Delta n}$				
Residual current breaking time	$\leq 0.2S$ S-type 0.5S 1S				
Limit no drive time	$\Delta t > 0.06s$ (2 $I_{\Delta n}$) (S-type)				
Undervoltage action value (standard type)	145V \pm 5% (automatically close after voltage recovery)				
Overvoltage action value (standard type)	280V \pm 5% (automatically close after voltage recovery)				



MDM1Z-125



MDM5Z-400

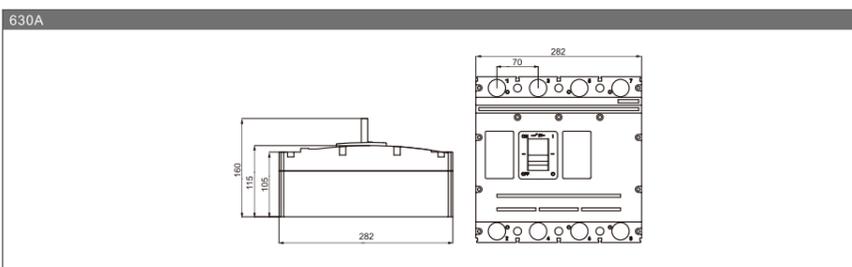
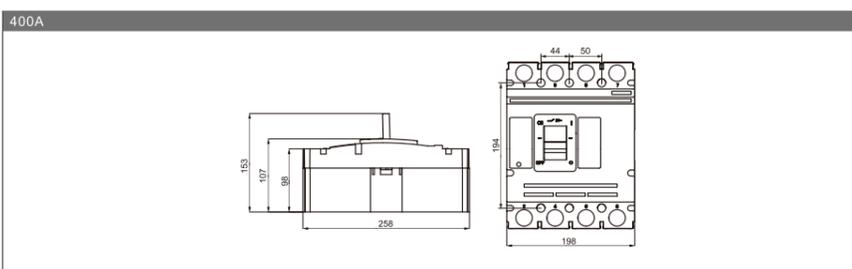
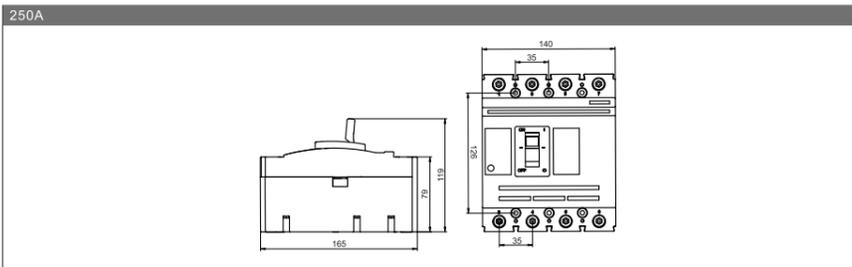
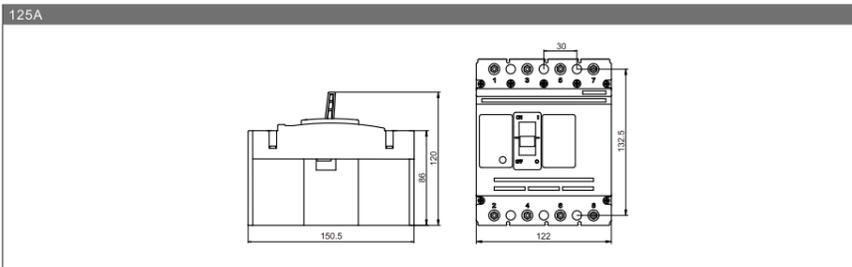


► Overview

MDM1Z PV DC Moulded Case Circuit Breaker (MCCB) are mainly used in large solar power system, which are applied for solar DC combiner box ,inverter and DC power distribution cabinet. Rated voltage up to 1000V DC, current up to 630A, with the function of overload protection and short-circuit protection.

- High Shot- Circuit/Breaking Capacity
- Protection Functions: Overload, Short circuit , Unfrequent Operation
- Rated Voltage up to 1000V DC
- Rated Current 125A,250A,400A,630A
- IEC60947-2, GB14048-2
- Easy Installation

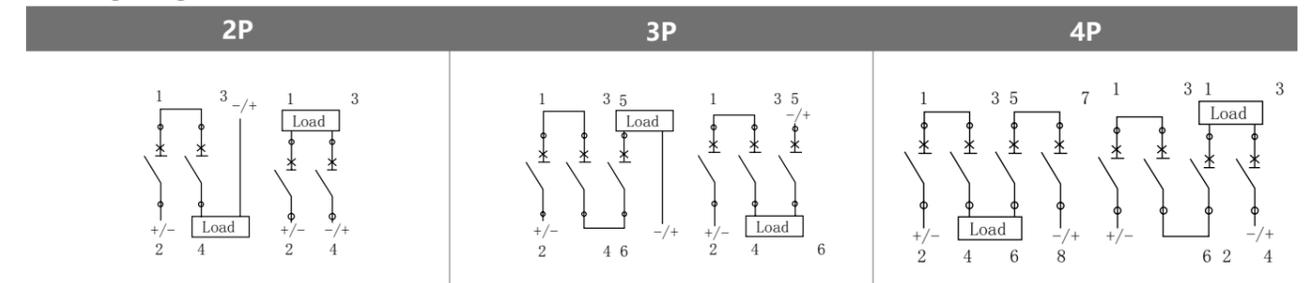
► Dimensions(unit:mm)



► Technical Specification

BD series PV DC MCCB					
Type		MDM1Z-125	MDM1Z-250	MDM5Z-400	MDM5Z-630
Pole		4P	4P	4P	4P
Max Rated Current		125A	250A	400A	630A
Electrical Characteristics					
Rated Working Voltage	Ue	1000V DC	1000V DC	1000V/1500V DC	1000V/1500V DC
Rated Current	In(A)	63/80/100/125	125/160200/250	250/300/315 350/400	400/500/630
Rated Insulated Voltage	Ui	1000V DC			
Rated Impulsed Voltage	Uimp	8kV			
1 Min Power Frequency Withstand Voltage		3.8 KV	3.8 KV	3.8 KV	3.8 KV
Ultimate Breaking Capacity	Icu	20 KA	20 KA	20 KA	20 KA
Run Breaking Capacity	Ics	15 KA	15 KA	15 KA	15 KA
Protection					
Tripping Type	Thermal Magnetic Type				
Control And Indication					
ControlMode	Manual	Direct (RHD)	Optional		
		Extended(ERH)	Optional		
	MOD		Optional		
Shunt Release (SHT)				Optional	
Auxiliary Release				Optional	
Terminal End Cover				Yes	
Interphase Barriers				Yes	
Service Life/Cycle Operation					
Mechanical		14000	14000	5000	5000
Electrical		5000	5000	1500	1500
Size(LxWx H)		150.5x122x92.5	165x140x88	258x198x107	282x282x115
Ingress Protection	All Sides IP40 ,Connection Terminal IP20				
Installation Environment					
Comply With	IE C60947-2/GB14048.2				
Storage Temperature	-40°C ~ +85°C				

► Wiring Diagram

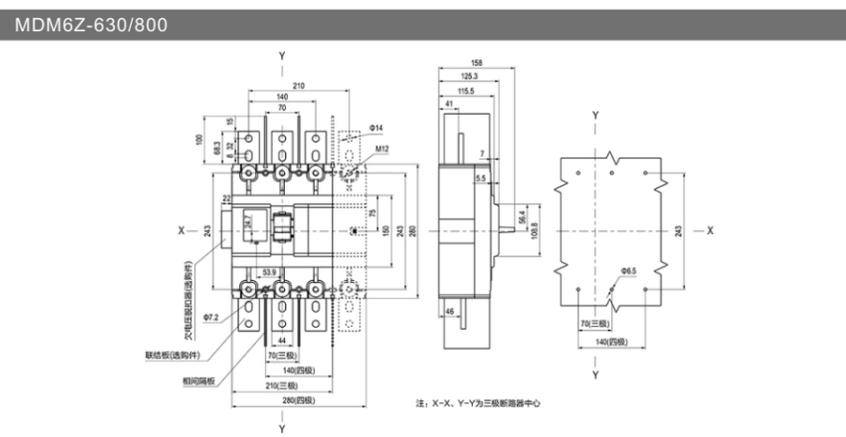
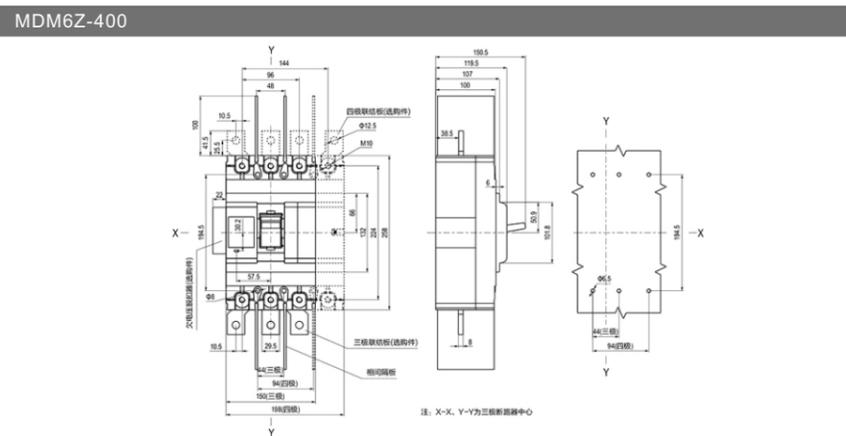
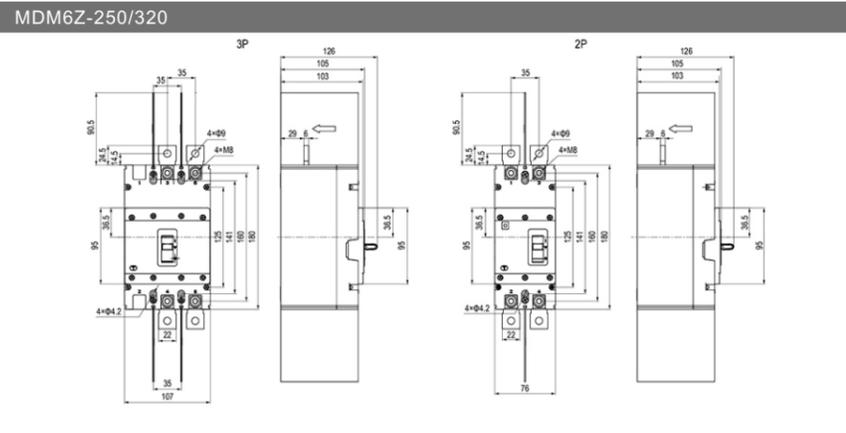




► Overview

MDM6Z series molded case circuit breaker, rated voltage up to DC1500V, current up to 400A. The breaking capacity of DC1500V is up to 10kA, which can reliably protect the system against short circuit.

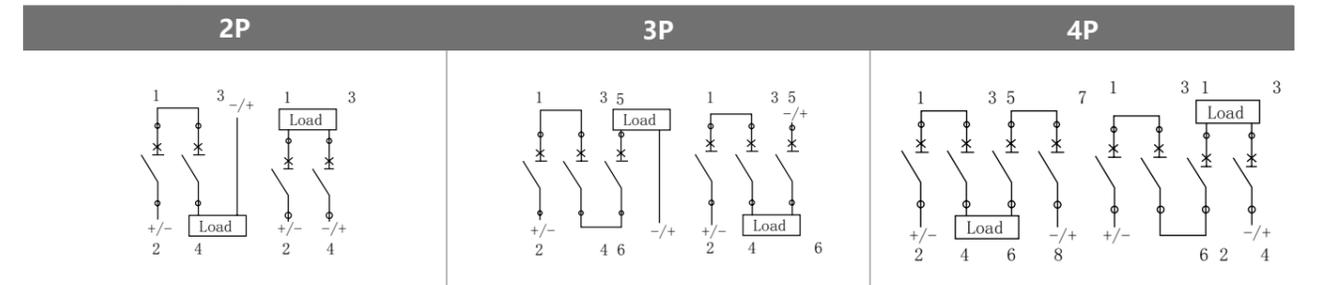
► Dimensions(unit:mm)



► Technical Specification

Model	MDM6Z-250	MDM6Z-320	MDM6Z-400	MDM6Z-630	MDM6Z-800
Shell frame grade Rated current Inm (A)	250	320	400	630	800
Rated current In (A)	125, 140, 160, 180, 200, 225, 250	280, 315, 320	315, 350, 400	400, 500, 630	630, 700, 800
pole	2, 3, 3	2, 3, 3	4	4	4
Rated operating voltage Ue (V)AC.	1000, 1250, 1500	1000, 1250, 1500	1000, 1250, 1500	1000, 1250, 1500	1000, 1250, 1500
Rated insulation voltage Ui (V)	1000, 1500, 1500	1000, 1500, 1500	1500	1500	1500
Rated impact withstand voltage Uimp (kV)	12				
Ultimate short-circuit breaking capacity LCU (kA)	20				
Operating short circuit breaking capacity Ics (kA)	20				
Connection mode	Top down out	Top down out	In the out	In the out	In the out
Mechanical life (total number of times)	10000				
Electrical life (total number of times)	2000				
Total break time (MS)	20				
Whether it has isolation characteristics	yes				
Standard.	IEC 60947-2-. GB/T 14048.2.				
Permissible ambient temperature	-40~+70* C				
Protection grade	Ip20				
Quality certification	CCC, CE, CB, T0V				
But with attachments	Auxiliary, alarm, shunt, manual operation, electric operation				
Arc distance (mm)	≥50(zero arc with arc mask)				
Instantaneous action value	10In				
Overall dimension LxWxH(mm)	180x76x126(2P)/180x107x126(3P)	258x200x107	280x280x115.5	280x280x115.5	280x280x115.5
installation	Fixed type, plug-in type				

► Wiring Diagram





► Overview

MDM1 series plastic case circuit breakers (hereinafter referred to as circuit breakers) are the result of one of the new circuit breakers researched and developed by international advanced design and manufacturing technology. Its rated insulation voltage is 1000V, suitable for AC 50Hz, the rated working voltage is 690V and below, (SHRM1-63 is 400V), infrequent operation in circuits with rated working current up to 800A. It is used for switching and infrequent starting of the motor. Circuit breaker with overload, short circuit and undervoltage protection function, can protect the circuit and power supply equipment from damage.

► Features

- The insulating parts are made of high-strength DMC unsaturated polyester glass fiber plastic, and the proportion of aluminum hydroxide content is appropriately increased to improve the flame retardant performance of the product.
- The conductive system adopts advanced silver-plating process, increasing the thickness of silver-plating to improve the current-carrying capacity and heat dissipation of the product.
- The accessories of circuit breakers are selected from professional manufacturers that meet national standards. Further improve product reliability.
- The operating mechanism "three buckles" (locking, rebuckling, and jumping) adopts advanced professional technology to ensure the hardness and toughness of the "three buckles".
- Further improve the reliability and stability of the product.
- The metal parts of the product adopt the environmental protection electroplating process, which conforms to the EU environmental protection standards.
- Circuit breakers are classified into three types according to their rated ultimate short-circuit breaking capacity (Icu): L type (standard type), M type (higher breaking type), and H type (high breaking type). The circuit breaker has the advantages of small size, high breaking, short arcing (zero arcing in some specifications), anti-vibration and other characteristics.
- This circuit breaker can be installed vertically (ie vertical installation) or horizontally (ie horizontal installation).
- This circuit breaker has isolation function, and its corresponding symbols are:

► Normal working conditions

- Ambient medium temperature: not higher than +40°C (+45°C for common products) and not lower than -5°C, and the average value of 24h does not exceed +35°C (+40°C for common products);
- Installation site: the altitude does not exceed 2000m;
- Installation site: The relative humidity of the air does not exceed 50% when the maximum temperature is +40°C, and can have a higher relative humidity at lower temperatures, such as 90% at 20°C; Condensation should take special measures;
- Pollution level: Level 3;
- Installation category: The installation category of the main circuit of the circuit breaker and the undervoltage release is III, and the installation category of the other auxiliary circuits and control circuits is II;
- The circuit breaker can withstand the influence of humid air, salt mist, oil mist, mold and nuclear radiation;
- The maximum inclination of the circuit breaker installation is ±22.5°;
- The circuit breaker can work reliably under earthquake conditions (4g);
- The circuit breaker should be installed in a place where there is no explosion hazard, no conductive dust, and not enough to corrode metals and damage insulation;
- The circuit breaker should be installed in a place free from rain and snow.

► Protection features

The thermal release of the circuit breaker has inverse time characteristics; the electromagnetic release is instantaneous, and the characteristics are shown in Table 3 (for power distribution) and Table 4 (for motor protection).

Table 3 (for power distribution)

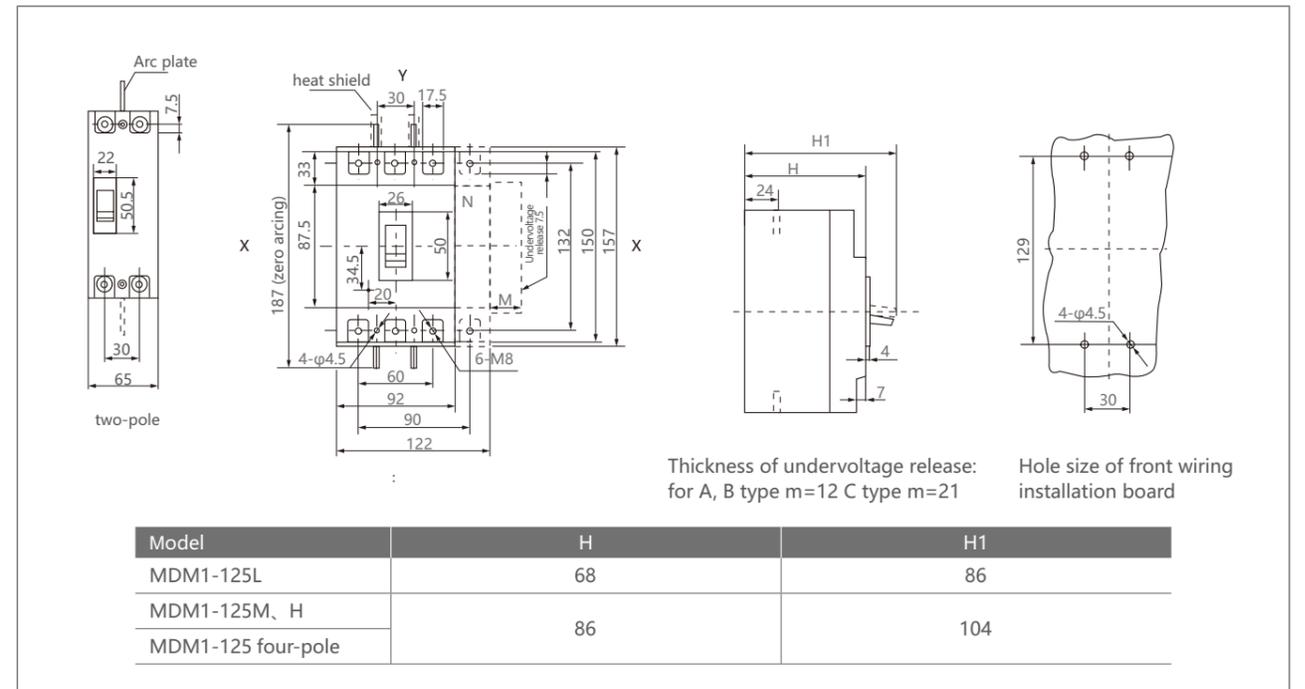
Rated operating current of release (A)	Thermal release (reference temperature 40°C)		Electromagnetic release operating current (A)
	1.05In (cold state) non-action time (h)	1.30In (hot state) operating time (h)	
10<In≤63	≥1	<1	10In±20%
63<In≤100	≥2	<2	10In±20%
100<In≤800	≥2	<2	5In±20% 10In±20%

Note: There is no 5In electromagnetic trip unit in the 100A and 125A specifications of SHRM1-250.

Table 4 (for motor protection)

Rated operating current of release (A)	Thermal release (reference temperature 40°C)				Electromagnetic release operating current (A)
	1.0In (cold state) non-action time (h)	1.20In (hot state) operating time (h)	1.50In (cold state) non-action time (h)	7.20In (hot state) operating time (h)	
10≤In≤205	≥2	≤2	4min	4s<T≤10s	12In±20%
225<In≤800			8min	6s<T≤20s	

► MDM1-125 (L, M, H) front wiring (two-pole, three-pole, four-pole) (X-X, Y-Y are the center of the three-pole circuit breaker)



► Main technical performance indicators

Frame current (A)	63			125(100)				250			400					
model	MDM1-63L	MDM1-63M		MDM1-125L	MDM1-125M	MDM1-125H		MDM1-250L	MDM1-250M	MDM1-250H	MDM1-400L	MDM1-400M	MDM1-400H			
Rated current In(A)	(6), 10, 16, 20, 25, 32, 40, 50, 63			(10), 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125				100, 125, 140, 160, 180, 200, 225, 250			225, 250, 315, 350, 400					
Number of poles (P)	3	3	4	3	3	4	3	3	4	4	3	3	4	4		
Rated insulation voltage Ui(V)	AC500			AC1000				AC1000			AC800					
Rated impulse withstand voltage Uimp(V)	6000			8000				8000			8000					
Rated working voltage Ue(V)	AC400			AC400	AC400	AC690	AC400	AC400	AC690	AC400	AC400	AC690	AC400			
Arc distance(mm)	0			0(>50)				>50			>100					
Rated ultimate short-circuit breaking capacity Lcu(kA)	AC400V	AC690V	25	50	35	50	80	35	50	80	50	65	100			
Rated operating short-circuit breaking capacity Lcs(KA)	AC400V	AC690V	18	35	22	35	50	25	35	50	35	42.5	65			
Operational performance (times)	power ups	no power	6000				3000				2000					
			8500				7000				4000					
Dimensions (mm)		W	78	78	103	92	92	122	92	107	107	142	107	150	198	150
		L	135	135	150	150				165	165			257		
		H	73.5	81.5	68	86				86	103			106.5		

Note: The limit breaking and arcing distance includes horizontal and vertical installation.
 *MDM1-125 arcing distance is divided into "0" arcing and 50mm, which should be specified when ordering.
 There is no "0" arcing in the 690V specification of the four-pole circuit breaker.

Frame current (A)	630			800			1250				
model	MDM1-630L	MDM1-630M	MDM1-630H	MDM1-800L	MDM1-800H		MDM1-1250L	MDM1-1250M	MDM1-1250H		
Rated current In(A)	400, 500, 630			630, 700, 800			800, 1000, 1250				
Number of poles (P)	3	3	4	3	4	3	3	4	3		
Rated insulation voltage Ui(V)	AC800			AC800			AC800				
Rated impulse withstand voltage Uimp(V)	8000			8000			8000				
Rated working voltage Ue(V)	AC400	AC400	AC690	AC400	AC400	AC690	AC400	AC400	AC690		
Arc distance(mm)	>100			>100			>100				
Rated ultimate short-circuit breaking capacity Lcu(kA)	AC690V	AC400V	50	65	100	85	30	100	85	30	100
Rated operating short-circuit breaking capacity Lcs(KA)	AC690V	AC400V	35	42.5	65	50	20	80	50	20	65
Operational performance (times)	power ups	no power	1500			1000			1500		
			4000			2500			4000		
Dimensions (mm)		W	182	240	182	210	280	210	210	280	210
		L	270			280	280	280	470		
		H	110			115.5	115.5	115.5	191		



MDSP-600 MDSP-1000



MDSP-1500



► Overview

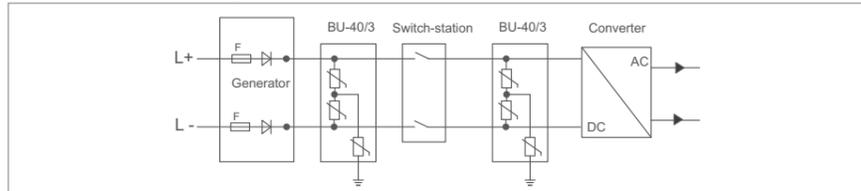
DC Surge Arrester BUD-40/3 is a Type 2 DC Surge Protection Device for DC side to protect the terminal devices in PV system from over voltage, like solarpanels or inverters. Available for 600Vdc ,1000Vdc,1500Vdc.

- Suitable For Use in All Photovoltaic Systems
- Prewired Modular Complete Unit, Consisting of A Base Part and Plug-in Protection Modules
- Plug-in Protection Module, Easily Installation and Maintainance
- High Energy Varistor, Response Time Less Than 25 Nanosecond
- Optional Remote Signalling Contac(FM) for Monitoring Device (Floating Changeover Contact)
- Din Rail Mounting TH35-7.5/DIN35
- Comply with :EN 50539-11

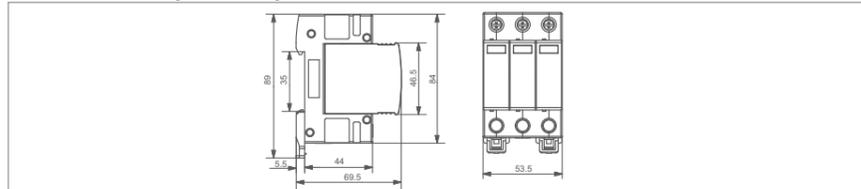
► Technical parameters

PV DC Surge Protection Device		
Modules	3 modules	
Standard	EN 50539-11	
Electrical Characteristics		
Open Voltage	Uoc Max	600/1000V/1500V
Max Continuous Operational Voltage	Uc	600/1000V/1500V
Nominal Discharge Current	In(8/20)µs	20KA
Maximum Discharge Curent	I _{max} (8/20)µs	40KA
Voltage Protection Level Up	Up	≤3.8KV
Response Time	tA	≤25ns
Indication		
Operating State/fault Indication	Green/Red	
Plug-in Protection Module	YES	
Type of remote signalling contact	changeover contact	
Remote Signalling Max Working Voltage	30V DC	
Remote Signalling Max Working Current	1A	
Connection And Installation		
Cross sectional area	min	1.5 mm ² solid / flexible
Cross sectional area	max	35 mm ² stranded 25 mm ² flexible
Connection	mm ²	By screw terminal 4-25 mm ²
Torque(Nm)	Main Circuit	2.5
	Remote Contact	0.25
For mounting on 35 mm DIN rails		
Place of installation	indoor installation	
Degree of Protection	Ip20	
Installation Environment		
Operating Temperature Range	TU	-40°C +80°C
Relative Humidity	30%~90%	
Weight kg	0.36	

► Principal Drawing



► Dimensions(unit:mm)



► Overview

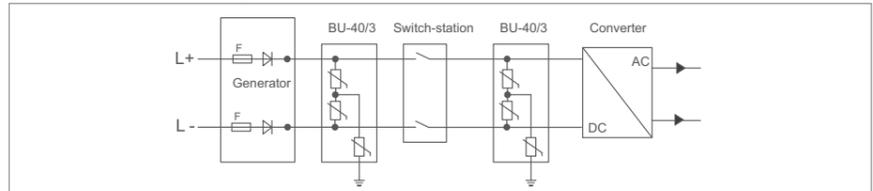
Surge protection device (in short SPD, alias: surge suppressor surge arrester) is suitable for TN-S, TN-C-S, TT, IT etc, power supply system of AC 50/60Hz, <380V, installed on the joint of LPZ1 or LPZ2 and LPZ3. It's designed according to IEC61643-1, GB18802.1, it adopts 35mm standard rail, there is a failure release mounted on the module of surge protection device, When the SPD fails in breakdown for over heat and over-current, the failure release will help electric equipments separate from the power supply system and give the indication signal, green means normal, red means abnormal, it also could be replaced for the module when has operating voltage.

- Inside over-current and over-heat protection, temperature control open circuit.
- Module design, convenient installation, could be replaced online.
- Time of response <25ns.
- The color of visible window shows operating status, green means normal, red means abnormal.

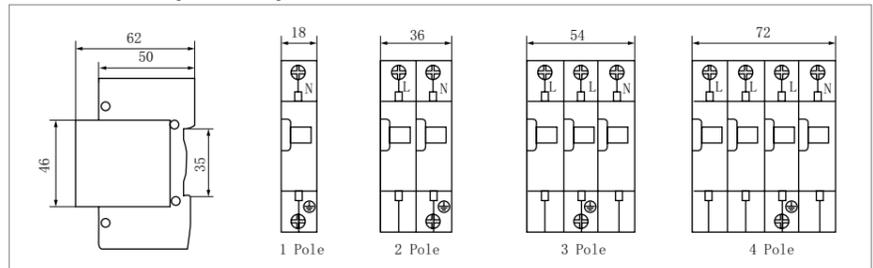
► Technical parameters

PV DC Surge Protection Device						
Technical Parameters		380V/220V 0.36				
Rated Operating Voltage Un(V~)		275V	320V	385V	385V	420V
Maximum Continuous Operating Voltage Uc(V~)	≤1.0	≤1.2	≤1.8	≤2.0	≤2.2	≤2.8
Voltage protection Level Up(V~)kV		5	10	20	30	40
Nominal Discharge Current In(8/20s)kA		10	20	40	60	80
Maximum Discharge Current I _{max} (8/20s)kA		10	20	40	60	80
Response Time (ns)	<25					
Test Standard	IEC61643.1, GB1 8802.1					
Operating Environment(centigrade)	-40°C ~ +85°C					
Max Connection Line	35mm ² hard wire/35mm ² strand wire copper line					
Recommended Connection L ine	16mm ² hard wire/25mm ² strand wire copper line					
Installation	Standard Rail 35mm					
Material of Outer Covering	Burning-proof Nylon					

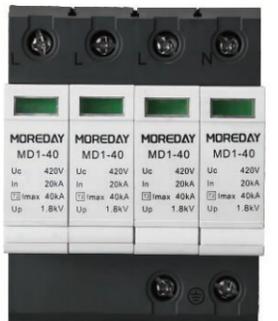
► Principal Drawing



► Dimensions(unit:mm)



MD1-40 2P



MD1-40 4P



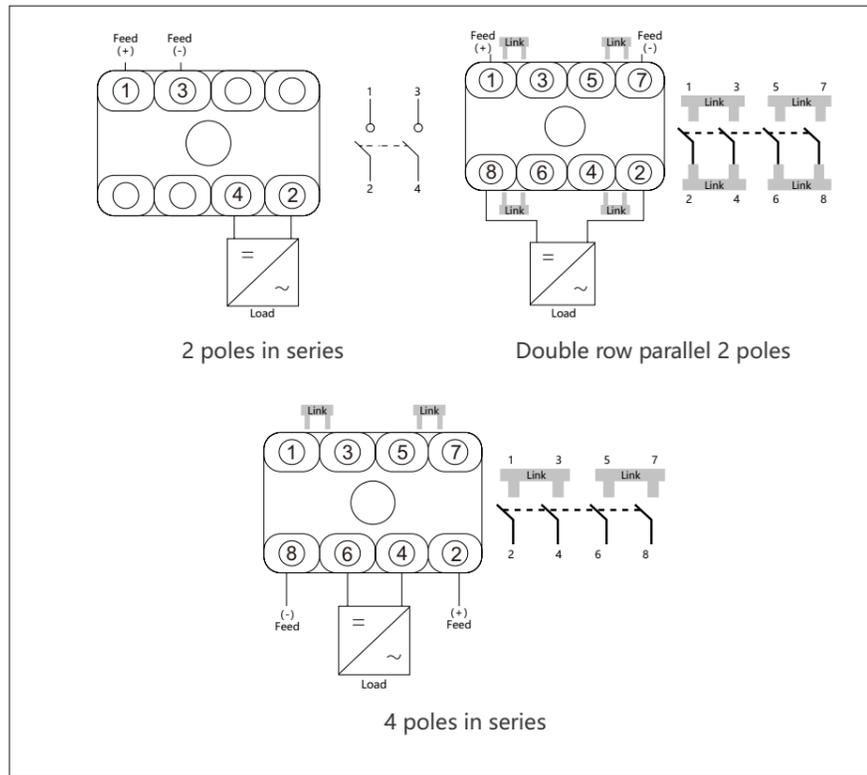


2 Poles connected in series	Ratings (DC21)	600V	700V	800V	900V	1000V	1200V
	MDIS-40-16A DC	16A	16A	16A	13A	9A	
	MDIS-40-25A DC	25A	23A	20A	16A	11A	
	MDIS-40-32A DC	32A	27A	23A	20A	13A	
2 Poles in parallel connected in series with 2Poles in parallel	Ratings (DC21)	600V	700V	800V	900V	1000V	1200V
	MDIS-40-16A DC	35A	16A	16A	16A	16A	16A
	MDIS-40-25A DC	40A	25A	25A	25A	25A	25A
	MDIS-40-32A DC	45A	32A	32A	32A	32A	32A
4 poles connected in series	Ratings (DC21)	600V	700V	800V	900V	1000V	1200V
	MDIS-40-16A DC	16A	16A	16A	16A	16A	16A
	MDIS-40-25A DC	25A	25A	25A	25A	25A	25A
	MDIS-40-32A DC	32A	32A	32A	32A	32A	32A

► The main technical parameters

Photovoltaic DC isolated switch	Rated current 16A 25A 32A
Product number MDIS-40-16/25/32A DC	Rated voltage 1200V
Opening method Handle 90° Rotary switch	Dimensions 83mm*61mm*46mm
Ambient temperature -5°C~40°C	Installation method Rail mounting inside the distribution box
Switch body plastic part nylon	VO Switch body plastic flame retardant VO
Switch body energized part copper	The handle is connected to the main body

► Diagram

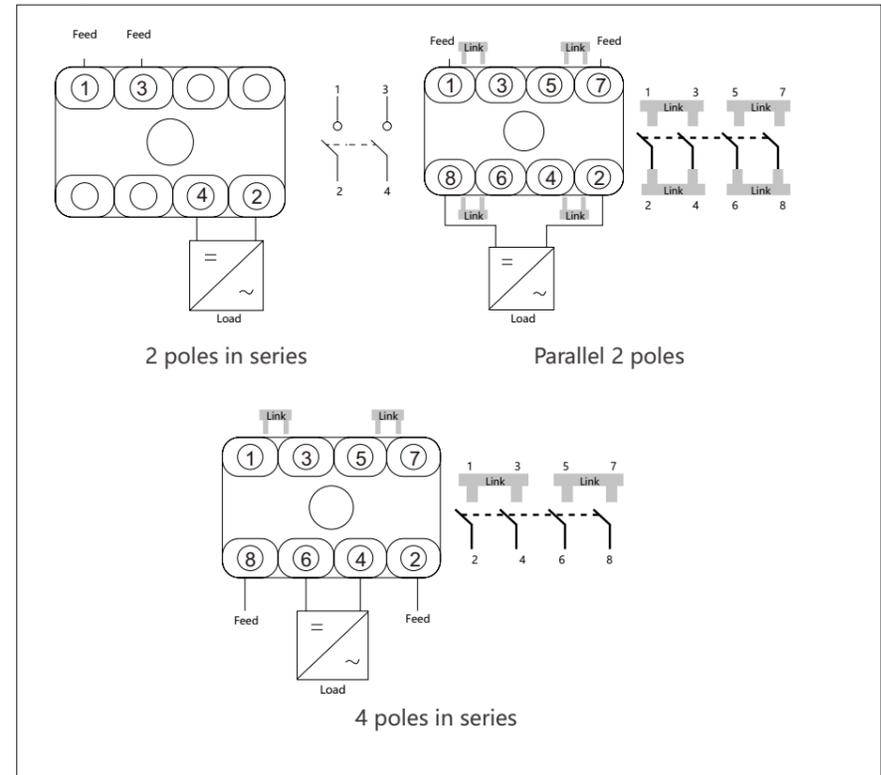


2 Poles connected in series	Ratings (DC21)	500V	600V	800V	900V	1000V	1200V
	MDIS-40MD-16A DC	16A	16A	16A	13A	9A	
	MDIS-40MD-25A DC	25A	25A	13A	13A	11A	
	MDIS-40MD-32A DC	32A	32A	13A	13A	13A	
2 Poles in parallel connected in series with 2Poles in parallel	Ratings (DC21)	500V	600V	800V	900V	1000V	1200V
	MDIS-40MD-16A DC	35A	29A	13A	16A	16A	16A
	MDIS-40MD-25A DC	40A	25A	25A	25A	25A	25A
	MDIS-40MD-32A DC	45A	32A	32A	32A	32A	32A
4 poles connected in series	Ratings (DC21)	500V	600V	800V	900V	1000V	1200V
	MDIS-40MD-16A DC	16A	16A	16A	16A	16A	16A
	MDIS-40MD-25A DC	25A	25A	25A	25A	25A	25A
	MDIS-40MD-32A DC	32A	32A	32A	32A	32A	32A

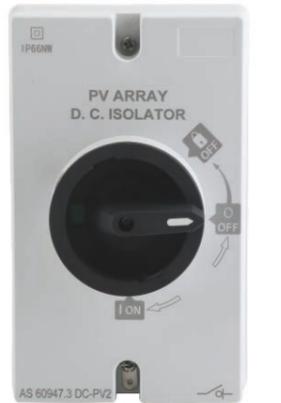
► The main technical parameters

Photovoltaic DC isolated switch	Rated current 16A 25A 32A
Product number MDIS-40MD-16/25/32A DC	Rated voltage 1200V
Opening method Handle 90° Rotary switch	Housing material PC+ABS
Ambient temperature -5°C~40°C	Shell waterproof rating IP66NW
Shell flame rating V1	Housing environment Outdoor UV (UV)
Switch body energized part copper	Inlet hole size M20 knockout hole
Switch body plastic part nylon	Switch body plastic flame retardant VO

► Diagram



MDIS-40MD With breathing valve



MDIS-40MD



MDIS-40MD With MC4





► Overview

AC Isolator Switch with super waterproof and dustproof function, can effectively prevent entry of dust, oil, in the rain or strong water will not affect the use of product performance; have anti-corrosive, UV protection, cold resistant, high temperature resistant, anti-aging characteristics. Included in the range is single, double and triple pole switches from 20A to 63A. The base mounted mechanism provides for easier termination and more wiring room.

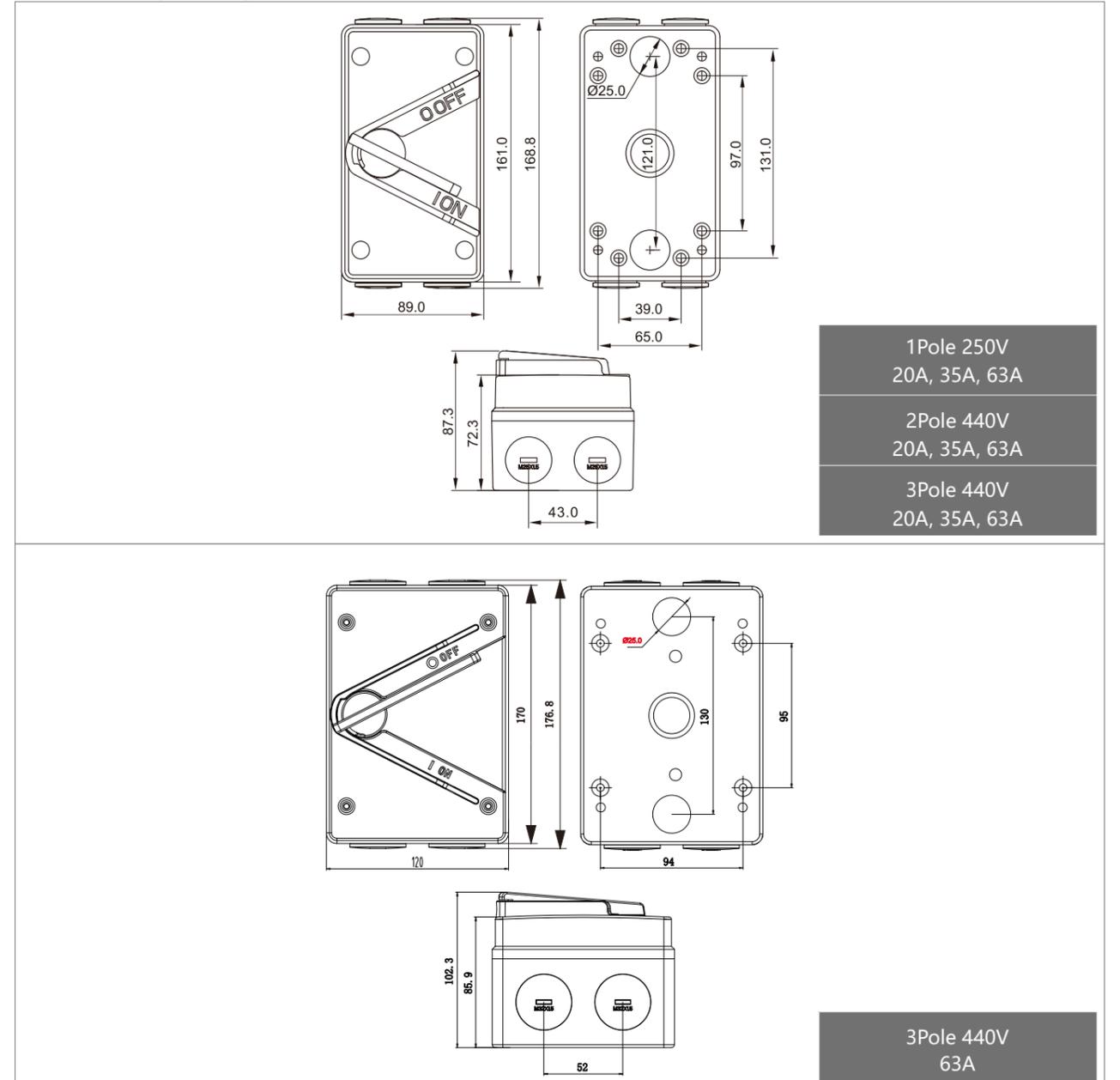
► Features

- High visibility ON/OFF indication
- 4pcs screws for high strength locking
- IP66 & UV Resistance
- Conduit entries on top and bottom
- Pad-lockable handle

► Technical parameters

Type	MDF1								
	1Pole			2Pole			3Pole		
Pole									
Rated operational current (Ie)	20A	35A	63A	20A	35A	63A	20A	35A	63A
Rated operational voltage (Ue)	250V	250V	250V	440V	440V	440V	440V	440V	440V
Standard	IEC60947.3 AC-22A								
Rated frequency	50Hz								
Rated insulation voltage (U)	1000V								
Rated impulse withstand voltage (Uimp)	2.5kV								
Short time withstand current (Icw)	750A								
Short circuit making capacity (Icm)	1.98kA								
Free air thermal current (1th)	Same as Ie								
Enclosed thermal current (Ithe)	Same as Ie								
Dielectric properties	800V								
Mechanical life	10000								
Electrical life	1500								
Protection degree	IP66								
UV Resistance	Yes								
Color	Gray								
Conduit entries	4xM25						4xM32		
Padlock max diameter	6mm								
Max. cable size (Mains)	25mm ²								
Max. cable size (N/E)	16mm ²								
Approved	SAA, RCM, CE								
Rated operation current (AS3133)	Locked rotor 3 Ø, "M" rating			Locked rotor 1 Ø, "M" rating					
	120A for 20A			140A for 20A					
	160A for 35A			180A for 35A					
	200A for 63A			200A for 63A					

► Dimensions(unit:mm)





MDPV-30(1000V)

► Overview

The MDPV-30/32 series of photovoltaic fuses are mainly used in the solar photovoltaic power generation DC combiner box to break the line overload and short-circuit current generated by the current feedback of the solar panel photovoltaic modules and inverters that may generate solar energy, thereby protecting For the use of solar photovoltaic panels, fuses can also be optionally used in any other DC circuit for line overload and short circuit protection of electrical components.

► Use environment

The upper limit of ambient air temperature does not exceed +90°C, and the lower limit of air temperature is not lower than -40°C;
 The altitude of the installation site does not exceed 3000m;
 At a maximum temperature of +40°C, the relative humidity of the air does not exceed 50%, allowing higher humidity at lower temperatures, for example, up to 90% at +25°C. Special measures should be taken for condensation that occasionally occurs due to temperature changes;
 In a medium free of explosion hazard, and where there is no sufficient gas or conductive dust to corrode the metal and destroy the insulation;
 Pollution degree 3.

► Terminals /connection

Type designation	MDPV-32	MDPV-30
Type designation	---	---
Type of Terminal	Pillar terminal	Pillar terminal
Material/plating of the terminal	Zinc plated Steel	Zinc plated Steel
Material/plating of the washer	Zinc plated Copper	Zinc plated Copper
Material/plating of the screw	Zinc plated Iron	Zinc plated Iron
Type of conductor	Flexible: 2.5mm ² -6mm ² , Copper type; hard wire: 2.5mm ² -6mm ²	
Connectable conductors ISO(mm2) or AWG number metric equivalent (mm2)	2.5mm ² -6mm ²	2.5mm ² -6mm ²
Number of conductors per terminal	1	1
Required preparation of the conductor	Example: No prepared conductor	
Max. Stripping length (mm)	8 mm	8 mm
Tightening torque (N•m)	2Nm, M5	2Nm, M5



MDPV-32(1500V)



► Technical Parameters

Type designation	MDPV-32	MDPV-30
Ambient temperature	-5C~+40C	-5C~+40C
Contact material	Copper (T2Y)	Copper (T2Y)
Contact form	Form U	Form U
Interrupting medium	Air	Air
- method of operation:		
- suitability for isolation	suitable	suitable
- degree of protection:		
- kind of current	DC	DC
in the case of a.c., number of phases and rated frequency		
-breaking arrangement for fused devices:	Double Break	Double Break
Rated and limiting values, main circuit	/	/
- rated operational voltage Ue (V):	1500V DC	1000V DC
- rated insulation voltage Ui (V):	1800V DC	1200V DC
- rated impulse withstand voltage Uimp (kV):	8kV	6kV
Rated operational voltage Ue	1500 V DC	1000 V DC
Rated operational current Ie	32 A	30 A
Insulation voltage	1800 V	1200 V
Conventional free air thermal current(Ith)	32A	30A
Conventional enclosed thermal current(Ithe)	32A	30A
Utilization category	DC-20A	DC-20A
Rated short-time withstand current	--	--
Rated short-circuit making current	--	--
Conditional short-circuit current	25 kA	20 kA
Short circuit protective device	Tested with fuse-link: YRPV-32 (SOLAR, gPV, 10x85, DC 1500V, 32A, Interrupting Capacity: 25kA)	Tested with fuse-link:YRPV-30 (SOLAR, gPV, 10x38, DC 1000V, 30A, Interrupting Capacity: 20kA)
IP code	Ip20	Ip20
Pollution degree	3	3
Suitability for isolation	-	-



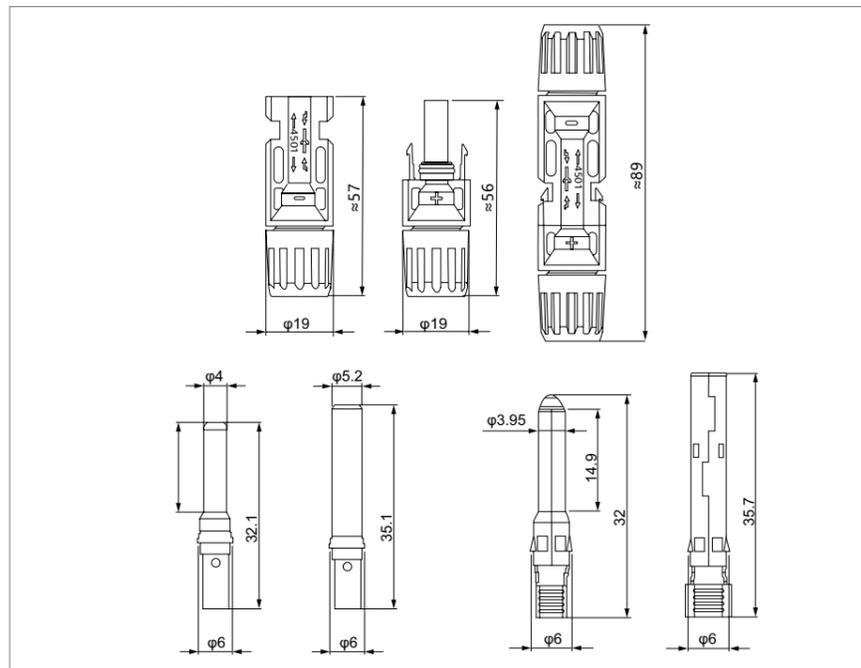
► Overview

DC connector MD-MC4 series are applicable for use in connection for photovoltaic devices like DC combiner box, Inverters, String Combiner Boxes, etc, double electric shock free protection for load closure and disconnection, can meet quick connection and anti vibration function. rainproof, moisture-proof, dust-proof and durable. waterproof grade IP67. high heat resistance, wear resistance, durability, corrosion resistance, thick copper inner core, high quality material selection.

► Technical data

Connector system	Φ4mm
Rated voltage	1000V DC(IEC)
Rated current	17A,22A,30A(1.5mm ² ,2.5mm ² ; 14AWG,4mm ² ; 6mm ² ; 12AWG,10AWG)
Test voltage	6kV(50Hz,1min.)
Temperature Range	-40°C...+90°C(IEC) -40°C...+75°C(UL)
Upper Temperature Limit	+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

► Dimensions(mm)



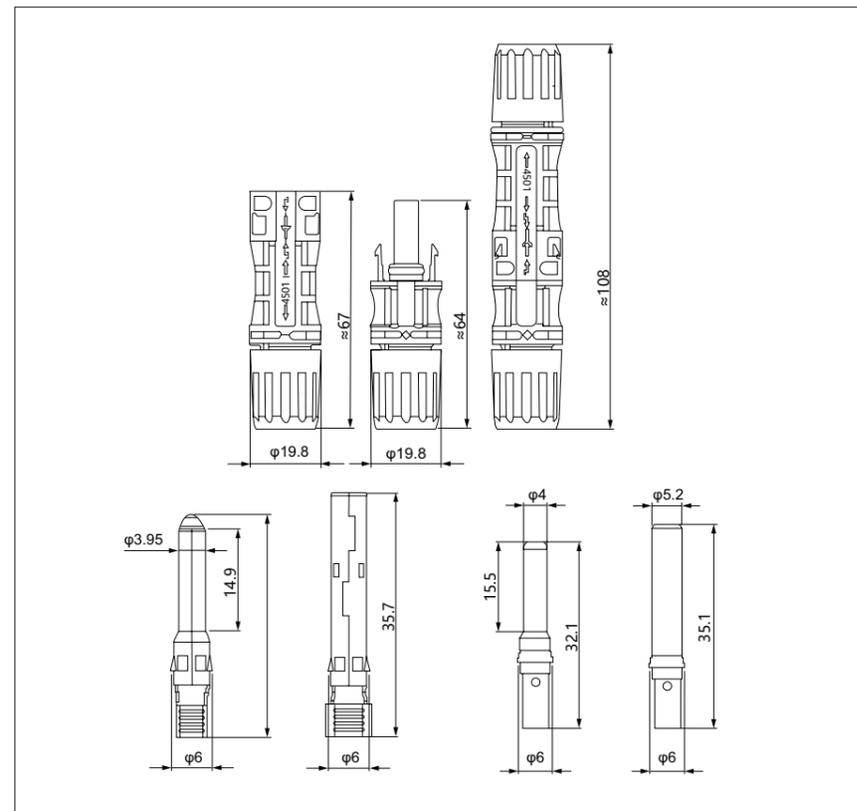
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► Technical data

Connector system	Φ4mm
Rated voltage	1500V DC(IEC) ¹
Rated current	17A,22A,30A,45A(1.5mm ² ,2.5mm ² ; 14AWG,4mm ² ; 6mm ² ; 12AWG,10AWG)
Test voltage	6kV(50Hz,1min.)
Temperature Range	-40°C...+90°C(IEC)-40°C...+75°C(UL)
Upper Temperature Limit	+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/PV
Locking system	Snap-in
Flame class	UL-94-V0
Salt mist spray test,degree of severity 5	IEC 60068-2-52

► Dimensions(mm)





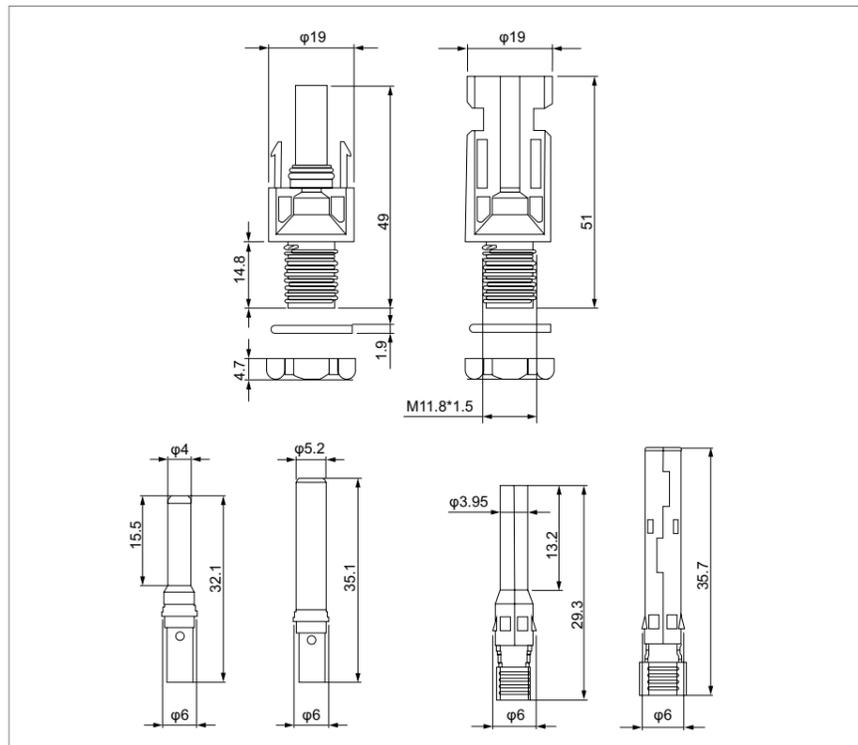
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Connector system	Φ4mm
Rated voltage	1000V/1500V DC (IEC) ¹
Rated current	17A, 22A, 30A (1.5mm ² , 2.5mm ² ; 14AWG, 4mm ² ; 6mm ² ; 12AWG, 10AWG)
Test voltage	6kV (50Hz, 1min.)
Temperature Range	-40°C...+90°C (IEC) -40°C...+75°C (UL)
Upper Temperature Limit	+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

► Dimensions (mm)



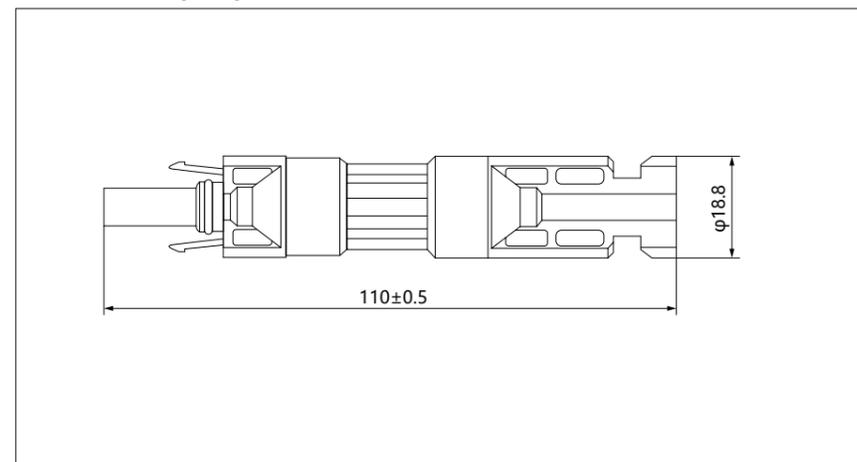
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► Technical data

Connector system	Φ4mm
Rated voltage	1000V DC (IEC) ¹
Rated current	10A, 15A, 20A (1.5mm ² , 2.5mm ² ; 14AWG, 4mm ² ; 6mm ² ; 12AWG, 10AWG)
Test voltage	6kV (50Hz, 1min.)
Temperature Range	-40°C...+90°C (IEC) -40°C...+75°C (UL)
Upper Temperature Limit	+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

► Dimensions (mm)





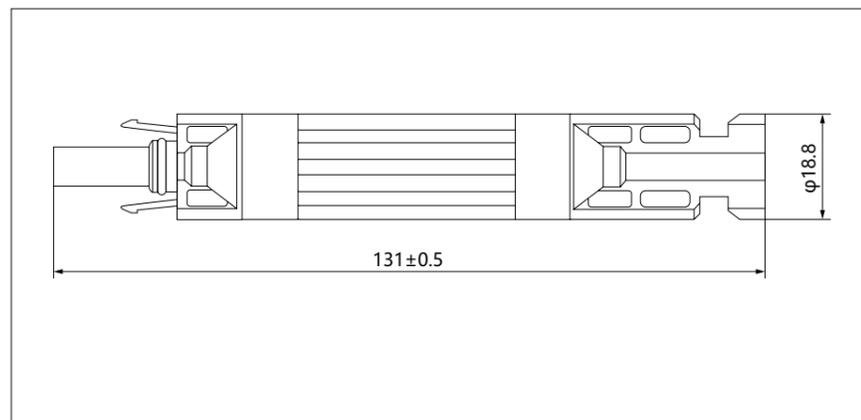
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► Technical data

Connector system	Φ4mm
Rated voltage	1000V/1500V DC(IEC) ¹
Rated current	10A,15A,20A,30A(1.5mm ² ,2.5mm ² ; 14AWG,4mm ² ; 6mm ² ; 12AWG,10AWG)
Test voltage	6kV(50Hz,1min.)
Temperature Range	-40°C...+90°(IEC) -40°C...+75°C(UL)
Upper Temperature Limit	+105°C (IEC)
Degree of protection,mated	IP67
unmated	IP2X
Comtact resistanceof plug connectors	0.5mΩ
Safety class	II
Contact material	Messing,verzinkt Copper Alloy,tin plated
Insulation mtacenal	PC/PPO
Locking system	Snap-in
Fameclass	UL-94-V0
Salt mist spray test,degree of severity 5	IEC 60068-2-52

► Dimensions(mm)



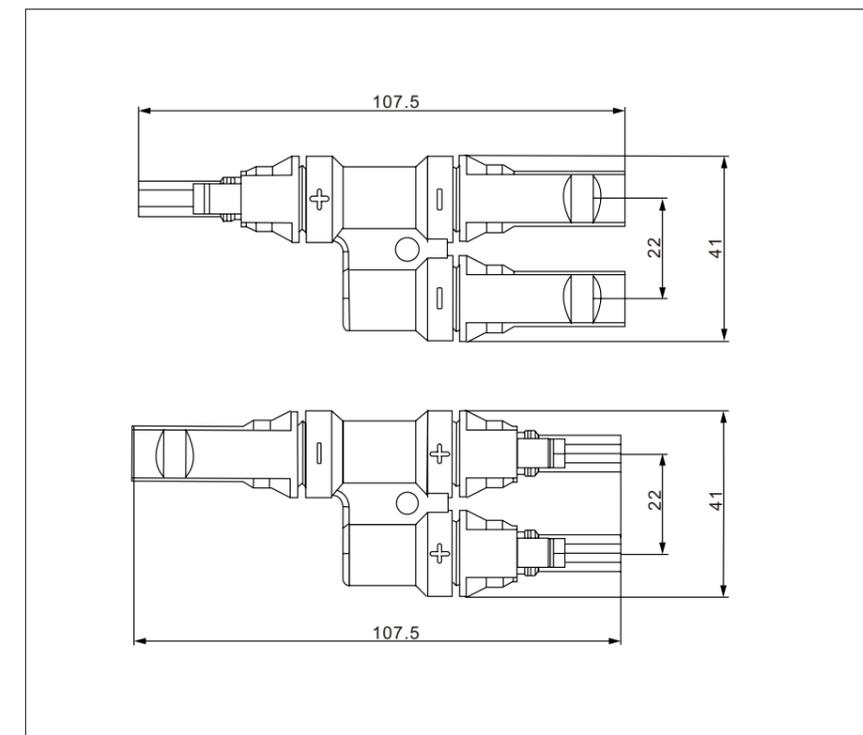
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► Technical data

Insulation Material	PPO
Contact Material	Copper,Tin plated
Suitable Current	30A
Rated Voltage	1000V (TUV) 600V (UL)
Test Voltage	6KV (TUV50Hz,1min)
Contact Resistance	<0.5mΩ
Degree Of Protection	IP 67
Temperature Range	-40°C~+ 85°C
Flame Class	UL94-V0
Safety Class	II
Pin Dimensions	Φ4mm

► Dimensions(mm)



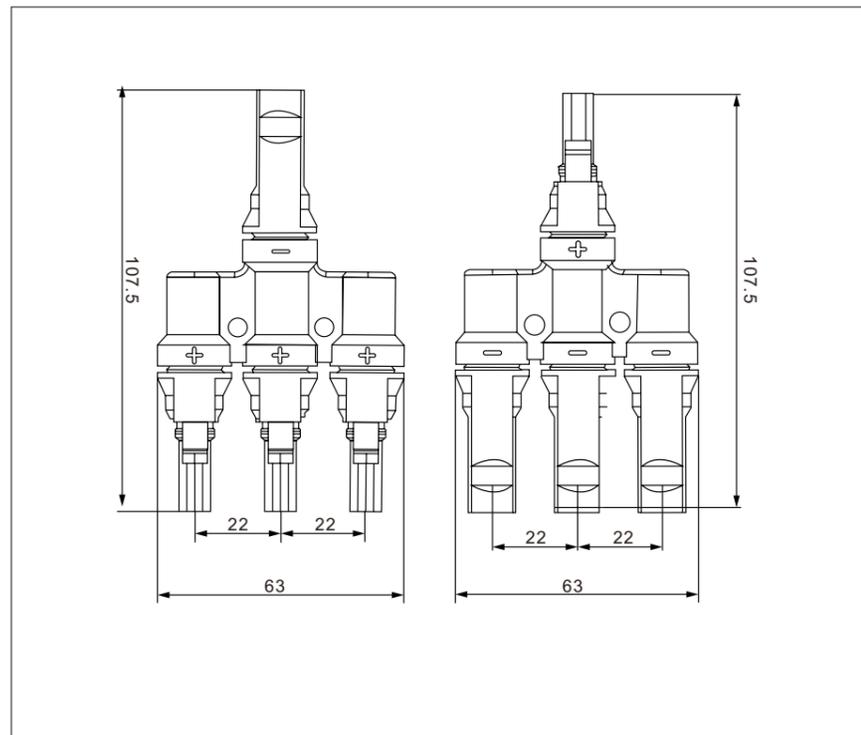
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Pin Dimensions	Φ4mm

► Dimensions(mm)



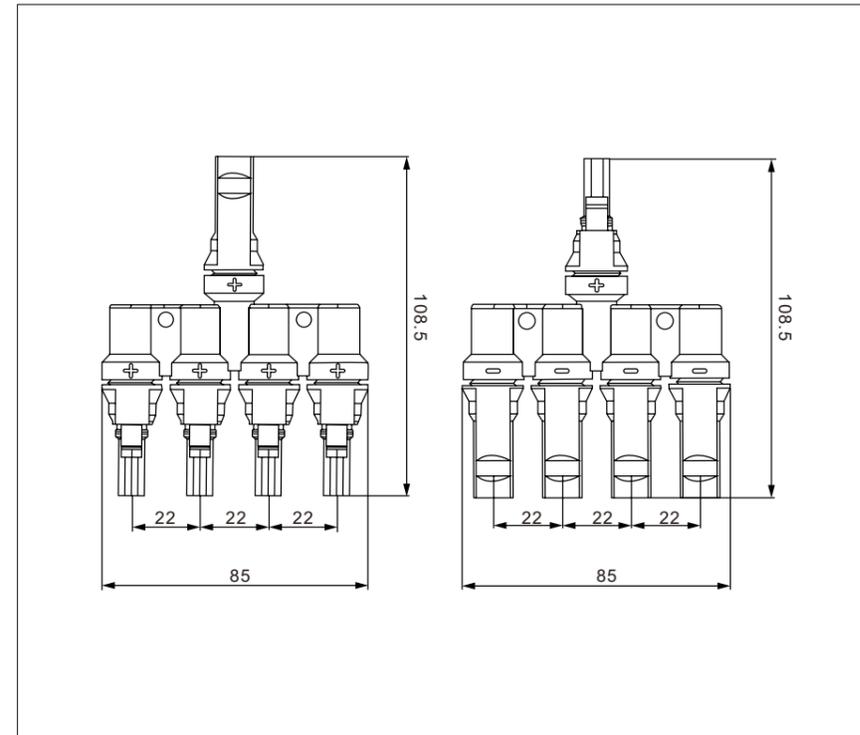
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Degree Of Protection	IP 67
Temperature Range	-40°C~ + 85°C
Flame Class	UL94-V0
Safety Class	II
Pin Dimensions	Φ4mm

► Dimensions(mm)



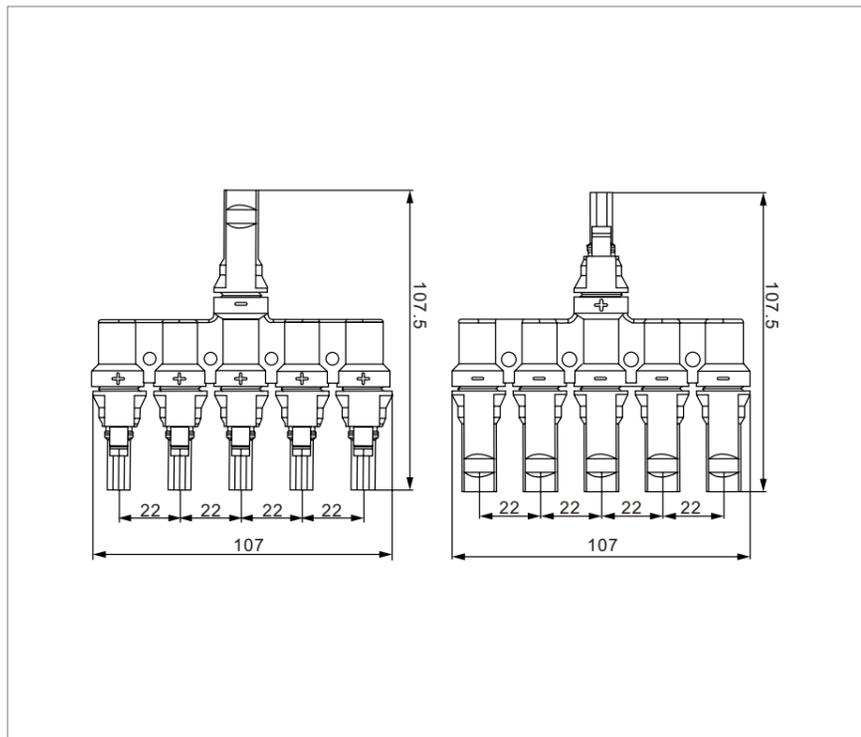
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Safety Class	II
Pin Dimensions	Φ4mm

► Dimensions(mm)



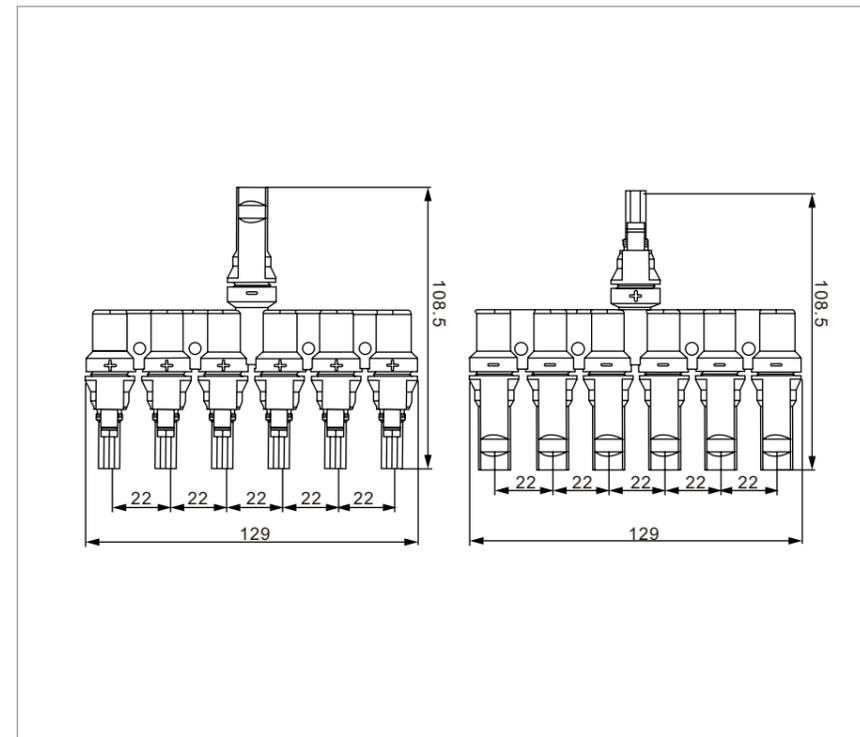
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► Technical data

Insulation Material	PPO
Contact Material	Copper, Tin plated
Suitable Current	30A
Rated Voltage	1000V (TUV) 600V (UL)
Test Voltage	6KV (TUV50Hz, 1min)
Contact Resistance	<0.5mΩ
Degree Of Protection	IP 67
Temperature Range	-40°C~ + 85°C
Flame Class	UL94-V0
Safety Class	II
Pin Dimensions	Φ4mm

► Dimensions(mm)





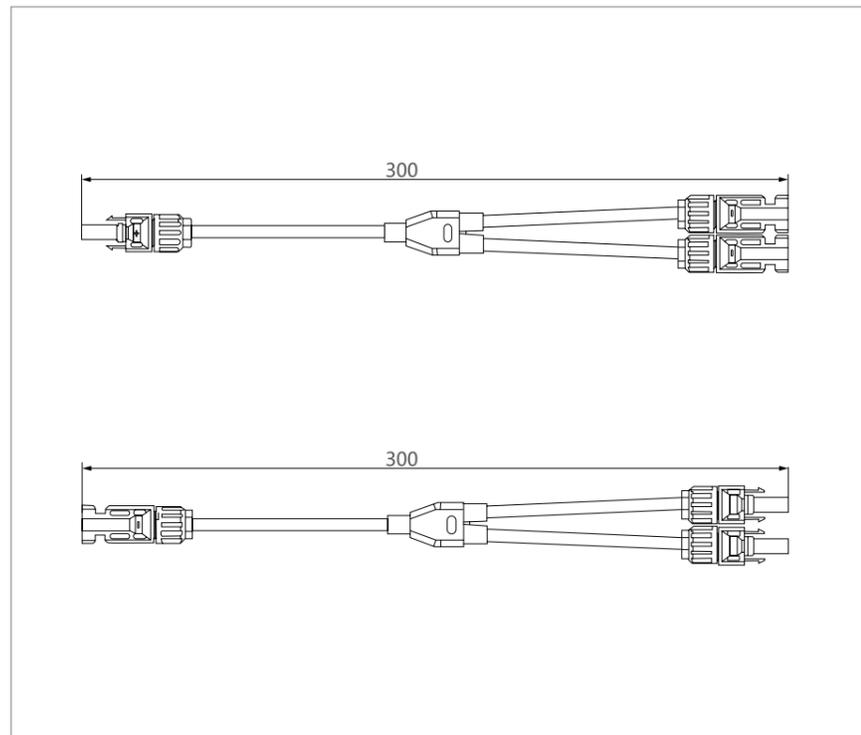
► Overview

DC connector MD-MC4 series are applicable for use in connection for photovoltaic devices like DC combiner box, Inverters, String Combiner Boxes, etc, double electric shock free protection for load closure and disconnection, can meet quick connection and anti vibration function. rainproof, moisture-proof, dust-proof and durable. waterproof grade IP67. high heat resistance, wear resistance, durability, corrosion resistance, thick copper inner core, high quality material selection.

► Technical data

Connector system	Φ4mm
Rated voltage	1000V DC(IEC) ¹
Rated current	30A
Test voltage	6kV(50Hz,1min.)
Temperature Range	-40°C...+90°C(IEC)-40°C...+75°C(UL)
Upper Temperature Limit	+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/PA
Locking system	Snap-in
Flame class	UL-94-V0
Salt mist spray test, degree of severity 5	IEC 60068-2-52

► Dimensions(mm)



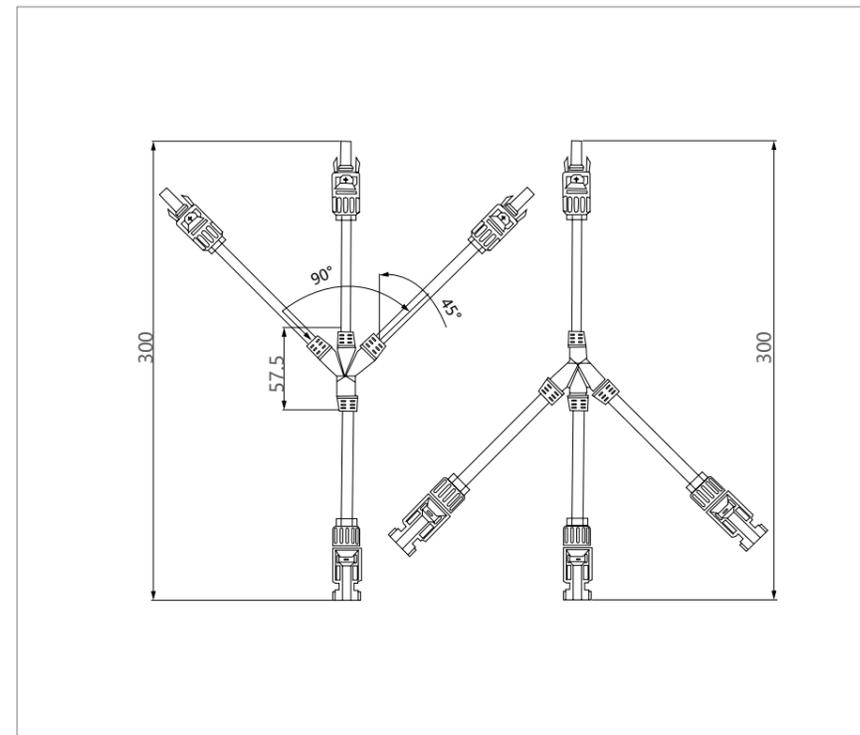
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► Dimensions(mm)





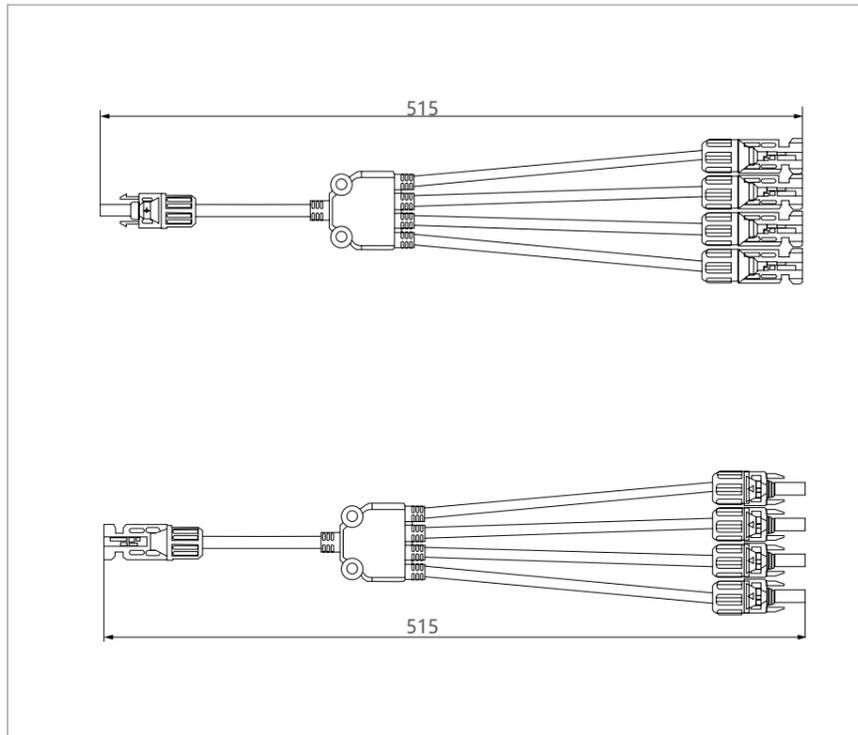
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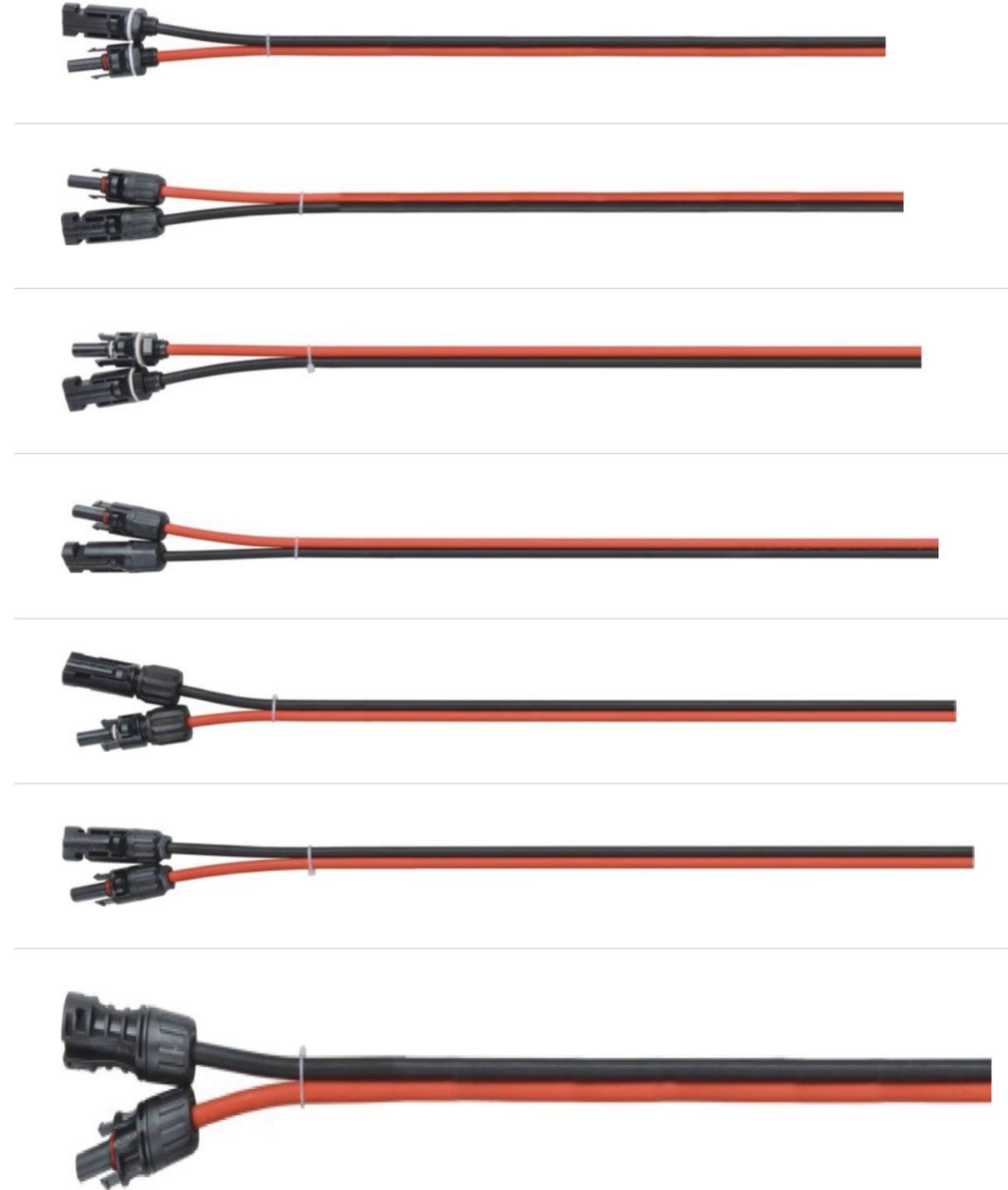
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► Dimensions(mm)



► Customization



► Extension cord processing customization

2.5m²



4m²



6m²



PV-MDT1



PV-MDT2



The inner core of the connector can be placed in a small bag on the side.

PV-MDS Tow-set spanners

MD-MC4(1500V)Specidized	MD-MC4(1000V)Specidized	MD-MC4(1000V)
		
PV-MDS1	PV-MDS2	PV-MDS3

PV-MDT3 Crimping Tool

► Main Specoality

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14);Suitable for solar system installation site,flexible application



► Main Specoality

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14); Suitable for solar system installation site,flexible application



PV-MDT5 Crimping Tool

► Main Specoality

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14); Suitable for solar system installation site,flexible application



PV-MDT6 Stripping Tool

► Main Specoality

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14); Suitable for solar system installation site,flexible application



► Modular Intelligent Prefabricated Cabin Features

The cabin provides a fully modular pre-installed solution for the substation, reducing floor space by 30% and reducing system design, installation and commissioning cycles by 70%.

It adopts all-metal prefabrication cabin and is equipped with intelligent environmental control system, which can be applied to complex climate and geographical environment such as high temperature, high humidity and sand dust.

eCloud energy cloud platform access, remote health diagnosis, fault analysis, maintenance guidance and other functions to achieve unattended substation and equipment life cycle management.

► Application Field

Wind power station, photovoltaic power generation, offshore wind power, distributed; photovoltaic power generation and other new energy field booster stations;

Power grid 11kV~40.5kV substation;

Large-scale factory and mine enterprise self-use substation.



KYN High voltage grid-connected cabinet

► Overview

The product meets the design specifications ", " photovoltaic "distributed power grid technology" and "provisions of 3.6kV~40.5kV switch equipment and control equipment" and other relevant national standards, suitable for distributed photovoltaic power generation and ground high side switch station access equipment (also called high voltage switchgear with grid).

► The main technical parameters

Project	Parameter
Rated voltage	12kV, 24kV, 35kV
Rated current	630A、1250A、1600A、2000A、2500A、3150A
Nominal function	Overload and short circuit protection, loss of voltage tripping protection, isolated island protection, fault disassembly, power quality monitoring, lightning protection



MDXGGD Low voltage grid-connected cabinet

► Overview

The product meets the technical requirements of the national standard "PV power design specifications", "distributed power access to the power grid technical regulations" and "low-voltage switchgear and control equipment" and other related standards, applicable to distributed and ground-based photovoltaic power generation low-voltage side access Switchgear (also known as low-voltage power grid cabinet).

► The main technical parameters

Project	Parameter
Rated voltage	380V
Rated current	1600A
Standard features	Overload and short circuit protection, loss of voltage trip protection, significant isolation disconnect point, lightning protection
Optional function	Anti-island protection



► Overview

The integrated photovoltaic power station integrates the box-type inverter station and the box-type booster station. The photovoltaic DC input to the three-phase high-voltage AC output can be completed in one box. The function is more perfect, the volume is smaller, the equipment is all factory construction and debugging, and the cables and cable trenches between the original box-type inverter station and the box-type booster station are omitted, benefits for owners. This type of substation can be called "substation with inverter function", which is divided into 35kV European-style integrated photovoltaic substation and 35kV American integrated photovoltaic power station.

► Features

Integrated ceiling, high-grade products.
 Integrated air duct, large ventilation volume, safer and more efficient inverter operation.
 The cabinet is integrated, the modules of the cabinet change are integrated with the cabinet, and the appearance is high-grade.
 The space is optimized, and the space in the box is fully utilized, which is convenient for inspection and maintenance.



European-Style Photovoltaic Substation

► Overview

The box is divided into three parts: the high pressure chamber, the low voltage chamber and the transformer, which can be arranged according to the "mesh" type.
 The inner and outer surfaces of the box are flat, free of rust, coating peeling and bumping damage, The coating layer is firm no obvious contrast reflection.
 The base of the cabinet and all exposed metal parts are treated with anti-corrosion, anti-rust and sprayed with a durable protective layer.
 The top cover of the cabinet is provided with a rainproof sealing cover and a rain cover, and the double-layered cover of the box can prevent heat radiation.
 The cabinet is made of stainless steel, and the paint is imported automobile paint. All of them are made of enamel paint, anti-smoke, anti-humidity, anti-mold, and outdoor weather resistance. The temperature of the photovoltaic power station is low.



► Use Of Environmental Conditions

Altitude: ≤3000m;
 Ambient temperature: -40°C ~ +85°C;
 The outdoor wind speed does not exceed 35m/s;
 Shockproof: horizontal acceleration 0.3m/s²; vertical acceleration is not more than 0.15m/s²;
 Flood control level: Level III;
 Installation location: outdoor;
 When the above normal use environment conditions are exceeded, the company can personalize the design according to the user's requirements.

► The Main Technical Parameter

Voltage
 High voltage side rated voltage: 6kV, 12kV, 24kV, 35kV, 36.75kV, 38.5kV
 Low voltage side rated voltage: 0.27kV, 0.3kV, 0.315kV, 0.4kV
 Rated frequency: 50Hz
 Phase number: three phase

► Overview

The box variable structure is divided into six parts: the transformer body, the high pressure chamber, the low pressure chamber, the detection chamber, the switch operation room and the fuse chamber, which can be arranged according to the "mesh" type. The high-voltage side is protected by a terminal type load switch plus a fuse, and the fuse is a full-range current limiting type fuse.
 The load switch and the fuse are installed in the transformer oil tank, and the insulating oil of the transformer is used as the insulating medium and the heat dissipating medium, With the advantages of compact structure and good heat dissipation performance. The high-pressure side outlet adopts a high-pressure dry casing to support the Tongan busbar structure, which is convenient for connecting multiple cable wires. The low-voltage side outlet can be directly routed or configured according to user requirements. The box changing door adopts a windproof hinge, and all the doors on the box are opened outward, the opening angle is not less than 90°, and a positioning device is provided. The doors are sealed, equipped with door seals, cushioning, and equipped with handles that protect against rain, blockage, rust and vandal. The box body is sealed by anti-theft structure. It is sealed with high-strength bolts and oil-resistant rubber gaskets. The whole box has no exposed detachable bolts.
 The box body is made of stainless steel plate, the paint is imported car paint, all adopt the enamel paint method, anti-smoke, anti-humid heat, anti-mold, outdoor weather resistance.



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 High voltage side rated voltage: 6kV, 12kV, 35kV, 36.75kV, 38.5kV
 Low voltage side rated voltage: 0.27kV, 0.3kV, 0.315kV, 0.4kV
 Rated frequency: 50Hz
 Phase number: three phase
 Protection level: fuel tank IP68, high and low pressure room IP54, high voltage room door open IP3X

MOREDAY

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