

For the content contained in this manual, Gandian Lightning Protection has the final right to interpret. For more detailed information, please inquire; our company's technical engineers will serve you wholeheartedly. Because of the continuous innovation of product technology, please refer to the actual product or the manual; Subject to change without notice.

Use environmentally friendly materials



GA&DA



Trending Products

Solutions Catalogue

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有品质才有市场，有改进才有进步，有创新才有发展

坚守专业与责任，做行业的领跑者

*Stick to professionalism and responsibility
and be the leader of the industry*



公司简介 COMPANY PROFILE

Gandian Lightning Protection Electric Co., Ltd. is a modern high-tech enterprise dedicated to the design, research and development, production, sales and service of lightning safety protection equipment. The company is located in the economic and technological development zone of Jiujiang City, the only international trade port city in Jiangxi Province. The total plant construction area is 39,960 square meters, the factory covers an area of 29,970.16 square meters, and there are more than 200 employees.

Through continuous reform and innovation, the company develops its own brand, showing a new look of internationalization, modernization and informationization. Break through high-end industries with focus, upgrade traditional industries with automation, actively build automated electrical equipment bases, gather a team of highly skilled experts, strengthen the simultaneous development of advanced equipment industry and modern service industry, have a variety of fully functional product performance testing laboratories, 8/20us 150kA compatible with 10/350us 25kA simulated lightning laboratory, 10/350us 120kA simulated lightning laboratory, 1.2/50us combined wave generator, 1.2/50us voltage generator, gap, discharge tube detector, thermal stability test system, lightning online monitoring system, intelligent lightning protection detection system, SPD backup protector power frequency current test, lightning non-trip current test system and a series of advanced detection equipment, to ensure the stability and innovation of our products!

Independently develop a number of advanced production and processing automatic assembly lines, which integrate automatic glue filling, automatic soldering, automatic laminating, pad printing, laser marking, automatic detection and uploading of data, automatic sealing and packaging and other automatic equipment to ensure each product consistency, fully guarantee efficient production and high-quality management, with unified planning of logistics, production, life and other service facilities, and strive to build a first-class intelligent production industrial base with international competitiveness.

The company took the lead in passing ISO9001 quality system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system, COC certification, European Community CE certification, TUV Rheinland certification, CB certification, Rohs certification, and established a system from software and hardware. A strict quality management system can meet the various needs of new and old customers with the fastest speed, the best products, and the best services; sales points are set up throughout the country, and the sales scope radiates to all provinces in China, Southeast Asia, South America, and Europe, Africa and many other places, the service scope is all over the country, and the high-quality products and good service have won the favor of the majority of customers.

The main products are power surge protector series, smart lightning protection series, smart surge protector series, smart lightning protection box series, signal lightning protection series, fuses, circuit breakers, photovoltaic connectors, transfer switches, photovoltaic cables, etc. The products are mainly used in the construction of urban and rural power grids, urban infrastructure construction, factory construction stages, major domestic and foreign oil fields, petrochemical companies, shipbuilding industry, offshore oil drilling platforms, military power construction, photovoltaic power generation, wind power generation, coal, petroleum, chemical, industrial and mining, hospitals, airports and other fields.

The company adheres to the corporate culture of "integrity first, happiness in the world, sharing and win-win", adheres to the spirit of "pragmatism, hard work, and dedication", and has the dream of "revitalizing national industry and assuming social morality". With the principle of trust, persist in realizing the new situation of "sustainable development, cooperative innovation", with the attitude of "professional, dedicated, rigorous, and eager to learn", always practice the glorious mission of "based on Rael Dunwei and build a world brand together".

Staff living area

The staff living area has 4360 square meters, 42 single rooms, 28 suites, supporting internal canteen, fitness area, outdoor activity area

Stamping and injection molding area

The stamping and injection molding area has 6800 square meters, 30 injection molding machines, 7 45T stamping machines, 5 35T stamping machines, 8 25 stamping machines, and the remaining 18 stamping machines of each tonnage

Comprehensive production area

The comprehensive production area has 8,100 square meters, dozens of production lines for various products, a simulation laboratory for lightning strikes, and various lightning protection products test instruments, etc.



Laboratory And Testing



Lab 1



Lab 2



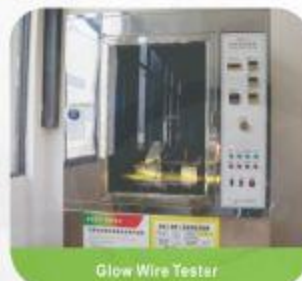
Lab 3



R&D Center No. 1



R&D Center No. 2



Glow Wire Tester



SPD thermal stability test system



Programmable salt spray test machine



Simulated lightning test platform



Programmable constant temperature and humidity test chamber



1.2/50μs voltage wave generator



Coupling and decoupling online cabinet



1.2/50μs combined wave generator

Certificate And International Patents



ISO14001



ISO9001



OHSAS18001



CB



CQC



RoHS



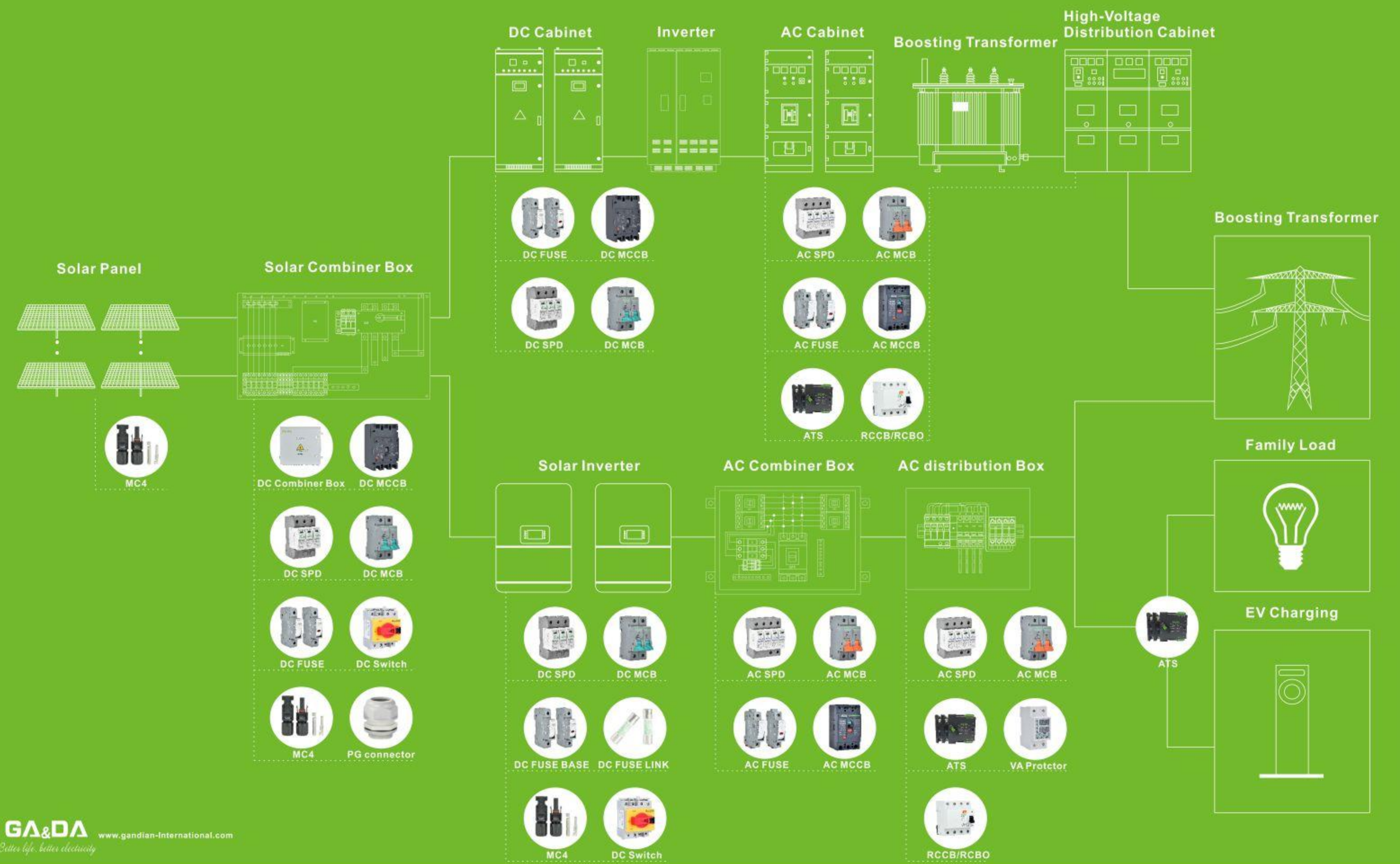
TUV-CE



TUV



CE



Type2 Surge Protective Devices

- Innovative tripping and breaking technology
- Pressing the contacts on both sides of the module can be easily plugged and unplugged, and can be replaced without interrupting the system operation
- Scan the QR code on the base to check the date of manufacture, test data, etc.



Type	G2010MT
SPD according to EN 61643-11 / IEC 61643-11	Type 2/Class II / T2
Max. continuous operating voltage (a.c.) (Uc)	150/280/320/385/440/600/NPE:255V
Nominal discharge current (8/20 μs) (In)	5kA
Max. discharge current (8/20 μs) (Imax)	10kA
Pole	1P,2P,3P,4P,1+NPE,3+NPE
Voltage protection level (Up)	≤0.7/0.8/1.0/1.2/1.6/2.0/1.5kV
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20



Type	G2020MT
SPD according to EN 61643-11 / IEC 61643-11	Type 2/Class II / T2
Max. continuous operating voltage (a.c.) (Uc)	150/280/320/385/440/600/NPE:255V
Nominal discharge current (8/20 μs) (In)	10kA
Max. discharge current (8/20 μs) (Imax)	20kA
Pole	1P,2P,3P,4P,1+NPE,3+NPE
Voltage protection level (Up)	≤0.8/1.0/1.2/1.45/1.6/2.0/1.5kV
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20

Type	G2040MT
SPD according to EN 61643-11 / IEC 61643-11	Type 2/Class II / T2
Max. continuous operating voltage (a.c.) (Uc)	150/280/320/385/440/600/NPE:255V
Nominal discharge current (8/20 μs) (In)	20kA
Max. discharge current (8/20 μs) (Imax)	40kA
Pole	1P,2P,3P,4P,1+NPE,3+NPE
Voltage protection level (Up)	≤1.0/1.3/1.4/1.6/2.2/2.5/1.5kV
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20



Type	G2010MT/G2020MT/G2040MT-S(SN)
SPD according to EN 61643-11 / IEC 61643-11	Type 2/Class II / T2
Max. continuous operating voltage (a.c.) (Uc)	150/280/320/385/440/NPE:255V
Nominal discharge current (8/20 μs) (In)	5/10/20kA
Max. discharge current (8/20 μs) (Imax)	10/20/40kA
Pole	2P/4P/1+NPE/3+NPE
Voltage protection level (Up)	Refer to the above table parameters
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20



Type1+2 Surge Protective Devices

- Innovative tripping and breaking technology
- Pressing the contacts on both sides of the module can be easily plugged and unplugged, and can be replaced without interrupting the system operation
- Scan the QR code on the base to check the date of manufacture, test data, etc.



Type	G20-B+C/4.5(6.5/7)
SPD according to EN 61643-11 / IEC 61643-11	Type 1+2/Class I + II / T1+T2
Max. continuous operating voltage (a.c.) (Uc)	280/320/385/440/600/NPE:255V
Nominal discharge current (8/20 μs) (In)	30/30/30kA
Max. discharge current (8/20 μs) (Imax)	60/60/50kA
Lightning impulse current (10/350 μs) (Iimp)	4.5/6.5/7kA
Pole	1P,2P,3P,4P,1+NPE,3+NPE
Voltage protection level (Up)	≤1.5/1.6/1.8/2.0/2.5/1.5kV
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20



Type	G30-B+C/12.5
SPD according to EN 61643-11 / IEC 61643-11	Type 1+2/Class I + II / T1+T2
Max. continuous operating voltage (a.c.) (Uc)	280/320/385/440/600/NPE:255V
Nominal discharge current (8/20 μs) (In)	30kA
Max. discharge current (8/20 μs) (Imax)	60kA
Lightning impulse current (10/350 μs) (Iimp)	12.5kA
Pole	1P,2P,3P,4P,1+NPE,3+NPE
Voltage protection level (Up)	≤1.5/1.6/1.8/2.0/2.5/1.5kV
Response time (t _A)	25ns/NPE:100ns
Degree of protection	IP20

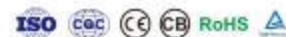
Type	G30-B+C/25-50
SPD according to EN 61643-11 / IEC 61643-11	Type 1+2/Class I + II / T1+T2
Max. continuous operating voltage (a.c.) [L-PE] (Uc)	280/320/385/440/600V
Max. continuous operating voltage (a.c.) [N-PE] (Uc)	255V
Nominal discharge current (8/20 μs) [L-PE]/[N-PE] (In)	25/50kA
Max. discharge current (8/20 μs) [L-PE]/[N-PE] (Imax)	50/100kA
Lightning impulse current (10/350 μs) [L-PE]/[N-PE] (Iimp)	25/50kA
Voltage protection level [L-PE] (Up)	≤1.5/1.6/1.8/2.0/2.5kV
Voltage protection level [N-PE] (Up)	≤1.5kV
Pole	1+NPE/3+NPE



Type	G30-B+C/25-100
SPD according to EN 61643-11 / IEC 61643-11	Type 1+2/Class I + II / T1+T2
Max. continuous operating voltage (a.c.) [L-PE] (Uc)	280/320/385/440/600V
Max. continuous operating voltage (a.c.) [N-PE] (Uc)	255V
Nominal discharge current (8/20 μs) [L-PE]/[N-PE] (In)	25/100kA
Max. discharge current (8/20 μs) [L-PE]/[N-PE] (Imax)	50/160kA
Lightning impulse current (10/350 μs) [L-PE]/[N-PE] (Iimp)	25/100kA
Voltage protection level [L-PE] (Up)	≤1.5/1.6/1.8/2.0/2.5kV
Voltage protection level [N-PE] (Up)	≤1.5kV
Pole	1+NPE/3+NPE

G2040PV Type 2 PV Surge Protective Devices

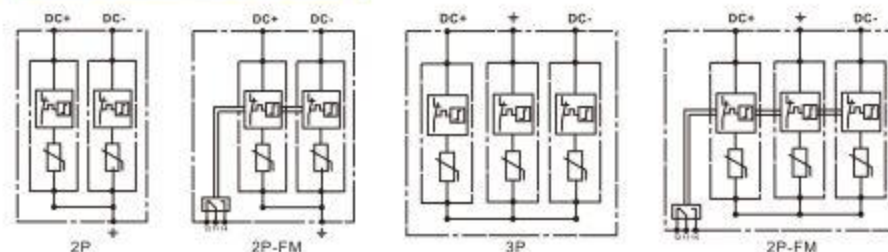
- Innovative tripping and breaking technology
- Pressing the contacts on both sides of the module can be easily plugged and unplugged, and can be replaced without interrupting the system operation
- Scan the QR code on the base to check the date of manufacture, test data, etc.



The main technical parameters

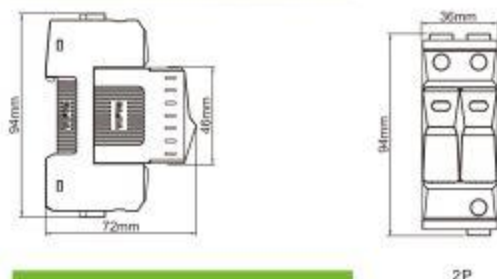


Basic circuit diagram

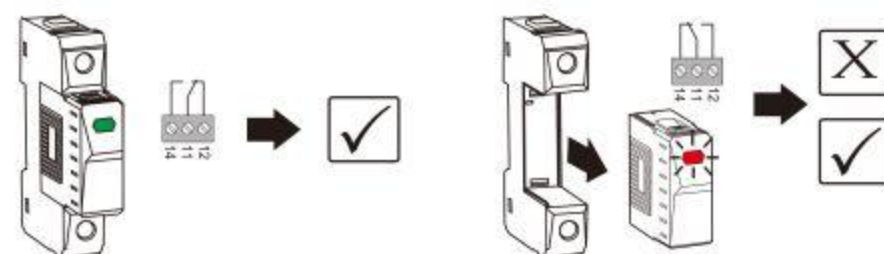


Type	G2040PV						
SPD according to EN 61643-31 / IEC 61643-31	Type 2/Class II/T2						
Max. PV voltage (d.c.) (U _{cpv})	300V dc	500V dc	600V dc	800V dc	1000V dc	1200V dc	1500V dc
Nominal discharge current (8/20 μs) (I _n)	20kA						
Max. discharge current (8/20 μs) (I _{max})	40kA						
Pole	2P/3P						3P
Voltage protection level (U _p)	≤1.5kV	≤2.5kV	≤2.5kV	≤3.2kV	≤4.0kV	≤4.0kV	≤4.5kV
Response time (t _A)	25ns						
Operating temperature range (T _U)	-40 °C ... +80 °C						
Operating state / fault indication	Green:normal Red:invalid						
Number of ports	1						
For mounting on	35 mm DIN rails acc. to EN 60715						
Place of installation	indoor installation						
Degree of protection	IP20						
Approvals	TUV,CB,CE,RoHs						

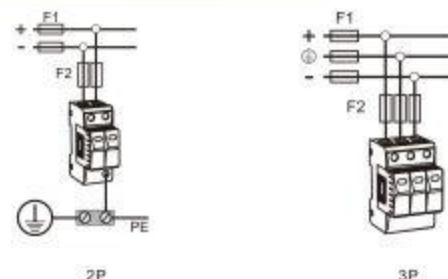
Dimension drawing



Remote signal terminal



Standard wiring



Type1+2 PV Surge Protective Devices

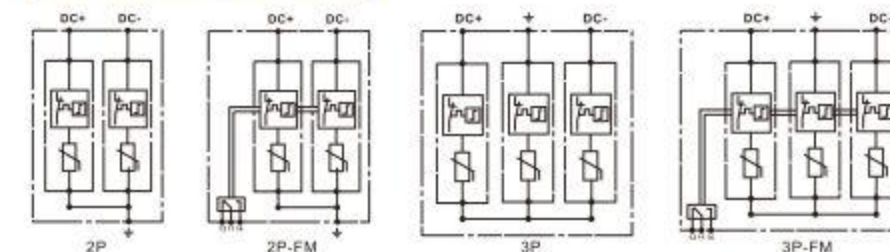
- Innovative tripping and breaking technology
- Pressing the contacts on both sides of the module can be easily plugged and unplugged, and can be replaced without interrupting the system operation
- Scan the QR code on the base to check the date of manufacture, test data, etc.



The main technical parameters



Basic circuit diagram

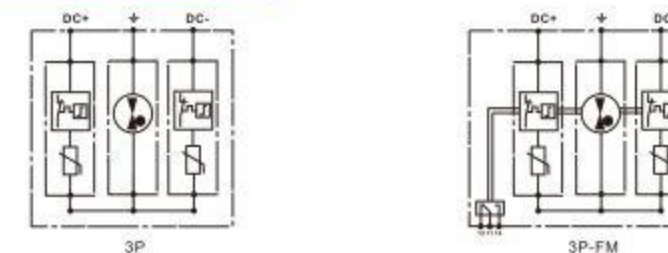


Type	G2040PV-B+C/4.5(6.5/7)						
SPD according to EN 61643-31 / IEC 61643-31	Type 1+2/Class I + II/T1+T2						
Max. PV voltage (d.c.) (U _{cpv})	300V dc	500V dc	600V dc	800V dc	1000V dc	1200V dc	1500V dc
Nominal discharge current (8/20 μs) (I _n)	20kA						
Max. discharge current (8/20 μs) (I _{max})	40kA						
Lightning impulse current (10/350 μs) (I _{imp})	4.5/6.5/7kA						
Pole	2P/3P						3P
Voltage protection level (U _p)	≤1.5kV	≤2.5kV	≤2.5kV	≤3.2kV	≤4.0kV	≤4.0kV	≤4.5kV
Response time (t _A)	25ns						
Operating temperature range (T _U)	-40 °C ... +80 °C						
Degree of protection	IP20						

The main technical parameters



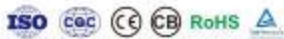
Basic circuit diagram



Type	G2015PV-B+C/(4.5/6.5/7/12.5)					
SPD according to EN 61643-31 / IEC 61643-31	Type 1+2/Class I + II/T1+T2					
Max. PV voltage (d.c.) (U _{cpv})	500V dc	600V dc	800V dc	1000V dc	1200V dc	1500V dc
Nominal discharge current (8/20 μs) (I _n)	15kA					
Max. discharge current (8/20 μs) (I _{max})	40kA					
Lightning impulse current (10/350 μs) (I _{imp})	4.5/6.5/7/12.5kA					
Pole	3P					
Voltage protection level (U _p)	≤2.5/2.5kV	≤2.5/3.4kV	≤3.2/3.6kV	≤4.0/4.5kV	≤4.0/4.5kV	≤4.5/5.4kV
Response time (t _A)	25/100ns					
Operating temperature range (T _U)	-40 °C ... +80 °C					
Degree of protection	IP20					

Signal Surge Protective Devices/Network Surge Protective Devices

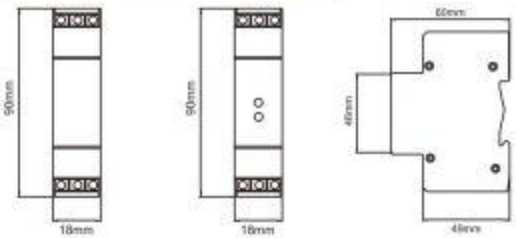
- Signal Surge Protective Devices
- Network Surge Protective Devices
- For signal control system/For Network signal system



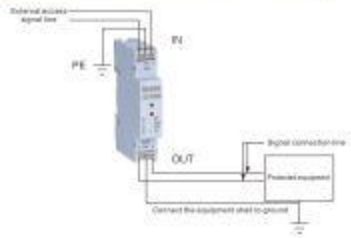
The main technical parameters



Dimension drawing



Standard wiring

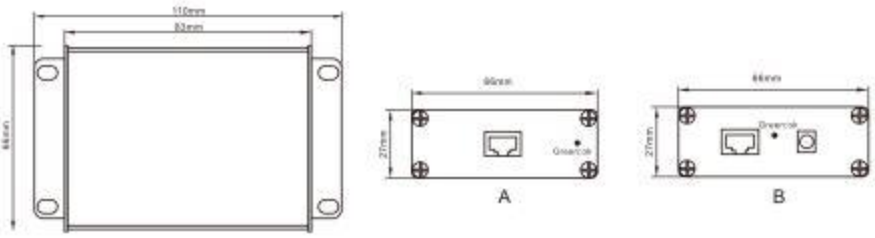


Type	G2010R5	G2010R6	G2010R12	G2010R24	G2010R48	G2010R110	G2010R220
Working voltage Un	5V	6V	12V	24V	48V	110V	220V
Maximum continuous operating voltage Uc	7V	9V	15V	30V	51V	150V	230V
Voltage protection level Up 3-4	≤13V	≤20V	≤30V	≤51V	≤100V	≤500V	≤700V
Nominal discharge current 8/20μs	3/5/10kA						
Maximum discharge current 8/20μs	5/10/20kA						

The main technical parameters



Dimension drawing



Type/Ordering number	G20POE	
Network	Nominal working voltage UN(DC)V	5V
	Maximum continuous working voltage Uc(DC)V	8V
	Nominal discharge current In(8/20μs)kA	3kA
	Maximum discharge current Imax(8/20μs)kA	5kA
	Transmission rate	100/1000M bps
Power	Nominal working voltage UN(DC)V	48V
	Maximum continuous working voltage Uc(DC)V	60V
	Nominal discharge current In(8/20μs)kA	3/5kA
	Maximum discharge current Imax(8/20μs)kA	5/10kA

Signal Surge Protective Devices/LED Surge Protective Devices

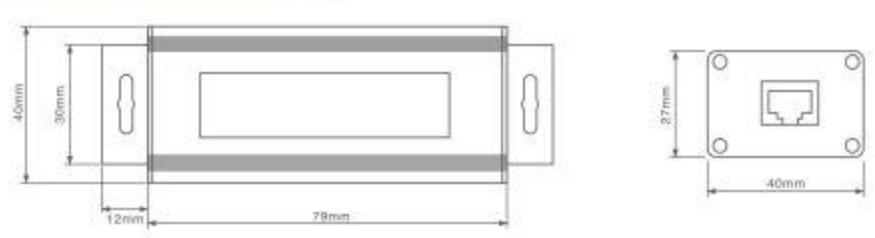
- Signal Surge Protective Devices
- LED Surge Protective Devices
- For Network signal system/For LED system



The main technical parameters



Dimension drawing

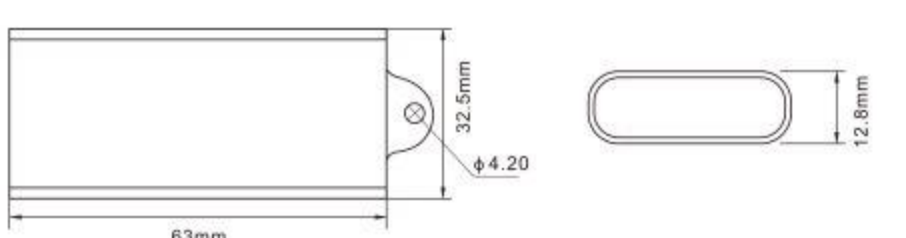


Type	G20X1-RJ45/100	G20X1-RJ45/1000
Nominal working voltage UN(DC)V	5V	
Maximum continuous working voltage Uc(DC)V	8/24/48/110/220V	
Nominal discharge current In(8/20μs)kA	3/5kA	
Maximum discharge current Imax(8/20μs)kA	5/10kA	
Transmission rate	100Mbps	1000Mbps
Insertion loss	≤0.3dB	
Input/output interface	RJ45	

The main technical parameters



Dimension drawing



Type	G2010LED
Line type/supply voltage	120/230V
Nominal discharge current	5kA
Maximum discharge current	10kA
Dimensions	63*32.5*12.8mm

AC Miniature Circuit Breaker

● Miniature circuit breaker is mainly used for protection against overload and short circuit under the AC 50Hz/60Hz, rated voltage 230V/400V and rated current from 1A to 125A. It also can be used for non-frequent on-and-off switch operation under normal circumstance.



Type	GDC1-63
Rated current	1A,2A,3A,4A,5A,6A,8A,10A,16A,20A,25A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated breaking capacity	4500A
Rated impulse withstand voltage(1.2/50)Uimp	4kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D



Type	GDC2-63
Rated current	1A,2A,3A,4A,5A,6A,8A,10A,16A,20A,25A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)Uimp	4kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D

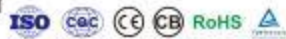
Type	GDC5-63
Rated current	1A,2A,3A,4A,5A,6A,8A,10A,16A,20A,25A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D



Type	GDL7-63
Rated current	1A,2A,3A,4A,5A,6A,8A,10A,16A,20A,25A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated breaking capacity	10000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D

AC Miniature Circuit Breaker

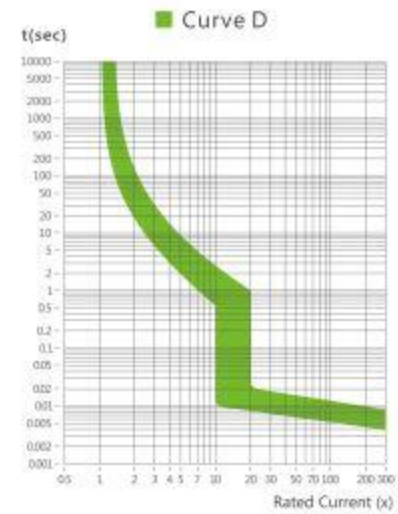
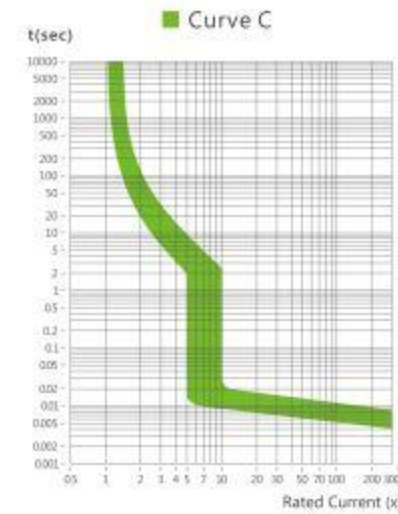
● Miniature circuit breaker is mainly used for protection against overload and short circuit under the AC 50Hz/60Hz, rated voltage 230V/400V and rated current from 1A to 125A. It also can be used for non-frequent on-and-off switch operation under normal circumstance.



Type	GDC1-125
Rated current	63A,80A,100A,125A
Pole	1P,2P,3P,4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated breaking capacity	10000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D



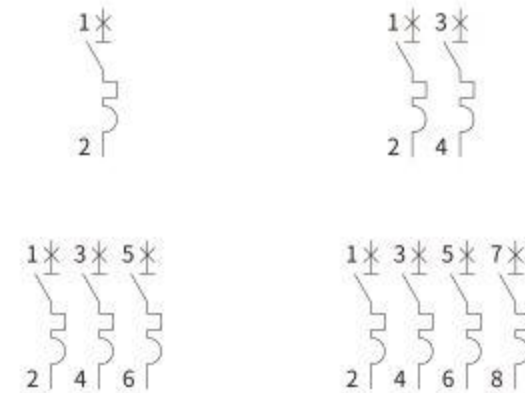
Characteristics Curve



Characteristics Curve

As per IEC60898	Thermal Tripping			Magnetic Tripping		
	No tripping current	Tripping current I_n	Time Limits t	Hold current I_h	Trip current I_s	Time Limits t
B Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$3 \times I_n$	$5 \times I_n$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$5 \times I_n$	$10 \times I_n$	$\geq 0.1s$ $< 0.1s$
D Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$10 \times I_n$	$20 \times I_n$	$\geq 0.1s$ $< 0.1s$

Circuit Diagram



PV DC Miniature Circuit Breaker

● GDDC Series circuit breaker is used for DC rated voltage to 1000V, rated current to 125A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



Type	GDDC1-63
Rated current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	4500A
Rated impulse withstand voltage (1.2/50)Uimp	4kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C, D



Type	GDDC2-63
Rated current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	6000A
Rated impulse withstand voltage (1.2/50)Uimp	6kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C, D

Type	GDDC5-63
Rated current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	6000A
Rated impulse withstand voltage (1.2/50)Uimp	6kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C, D



Type	GDDC17-63
Rated current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	10000A
Rated impulse withstand voltage (1.2/50)Uimp	6kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C, D

PV DC Miniature Circuit Breaker

● GDDC Series circuit breaker is used for DC rated voltage to 1000V, rated current to 125A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

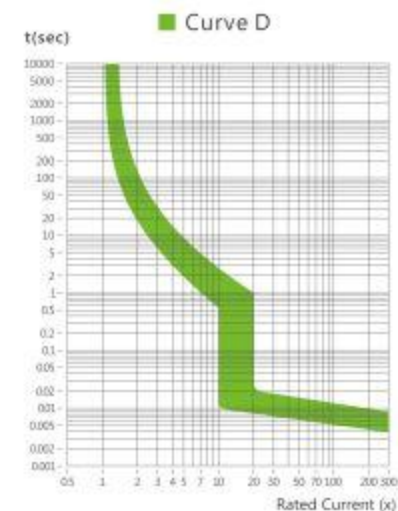
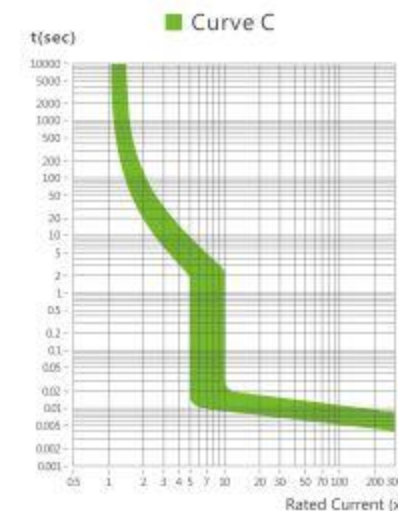
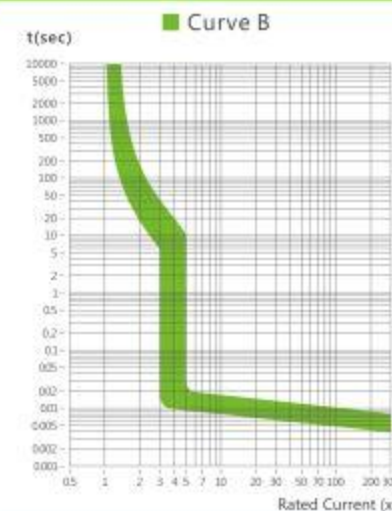


Type	GDDC4-63
Rated current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	10000A
Rated impulse withstand voltage (1.2/50)Uimp	8kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	C



Type	GDDC1-125
Rated current	63A, 80A, 100A, 125A,
Pole	1P, 2P, 3P, 4P
Rated voltage Ue (DC)	1P: 250V, 2P: 500V, 3P: 750V, 4P: 1000V,
Insulation voltage Ui (DC)	1000V
Rated breaking capacity	10000A
Rated impulse withstand voltage (1.2/50)Uimp	6kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C, D

Characteristics Curve

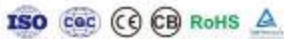


Circuit Diagram



AC MCCB and Solar DC MCCB

GDM1/GDDCM1 moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. "Take responsibility for every share of electricity and make it do its best."



AC MCCB



The main technical parameters

Type	Frame class Rated current Inm (A)	Rated current In (A)	Rated working voltage Ue(V)	Rated insulation voltage Ui(V)	Rated ultimate short-circuit breaking capacity Icu (kA) 400/690V	Rated operating short-circuit breaking capacity Ics (kA) 400/690V	Pole	Arcing distance
GDM1-63L	63	6, 10, 16, 20, 25, 32,	400	690	25*	18*	3P	≥50
GDM1-63M	63	40, 50, 63,			50*	35*	3P, 4P	
GDM1-125L	125	16, 20, 25, 32, 40, 50, 63, 80,	400	690	35/8	22/4	3P, 4P	≥50
GDM1-125M	125	100, 125,			50/10	35/5	3P, 4P	
GDM1-250L	250	125, 140, 160, 180, 200, 225,	400	690	35/8	25/4	3P, 4P	≥50
GDM1-250M	250	250,			50/10	35/5	3P, 4P	
GDM1-400L	400	250, 315, 350, 400,	400	690	50/10	35/5	3P, 4P	≥100
GDM1-400M	400				80/10	50/5	3P, 4P	
GDM1-400H	400				100/20	65/10	3P, 4P	
GDM1-630L	630	400, 500, 630,	400	690	50/10	35/5	3P, 4P	≥100
GDM1-630M	630				80/10	50/5	3P, 4P	
GDM1-630H	630				100/20	65/10	3P, 4P	
GDM1-800	800	630, 700, 800	400	690	100/30	65/15	3P, 4P	≥100
GDM1-1250	1250	800, 1000, 1250,	400	690	50/10	35/5	3P, 4P	≥100
GDM1-1600	1600	1250, 1600	400	690	50/10	35/5	3P, 4P	≥100

The main technical parameters

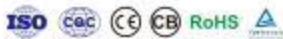
Type	GDDCM1-250		GDDCM1-320		GDDCM1-400		GDDCM1-630		GDDCM1-800	
Rated Continuous Current	250A		320A		400A		630A		800A	
Rated Current In (A)	100,125, 140,160, 180,200, 225,250,		280,315, 320,		250,315, 350,400,		400,500, 630,		630,700, 800,	
Rated Operating Voltage Ue (V) DC	1000V	1500V	1000V	1500V	1000V	1500V	1000V	1500V	1000V	1500V
Pole	2P	3P	2P	3P	4P		4P		4P	
Rated Insulation Voltage Ui (V)	1250V	1500V	1250V	1500V	1250V	1500V	1250V	1500V	1250V	1500V
Uimp (kV)	8kV	12kV	8kV	12kV	12kV		12kV		12kV	
Rated ultimate short-circuit breaking capacity Icu (kA)	20kA									
Rated operating short-circuit breaking capacity Ics (kA)	20kA									
Mechanical Life	8000				5000				3000	
Electrical Life	1000				1000				1000	
Breaking Times (ms)	20									
Standard	IEC60947-2,IEC60947-1,									
Temperature (℃)	-25℃~+50℃									
Protection Degree	IP20									

Solar DC MCCB



RCBO and RCCB

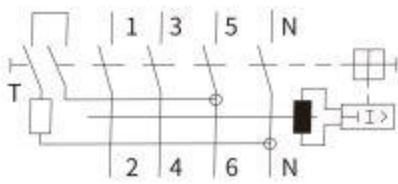
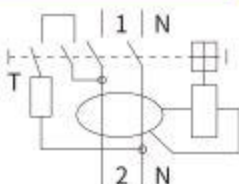
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6.0kA RCCB



Circuit Diagram



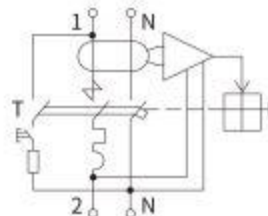
The main technical parameters

Type	GDL1-63
Residual current protection type	Electromagnetic
Residual current work type	A C type/A type
Rated current	16A, 25A, 32A, 40A, 63A,
Pole	2P, 4P,
Rated voltage Ue	2P: 240V~, 4P: 415V~,
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated sensitivity I _{Δn}	10mA, 30mA, 100mA, 300mA,
Rated breaking capacity	6000A
Break time under I _{Δn}	≤0.1s
Rated impulse withstand voltage (1.2/50)U _{imp}	4kV
Dielectric test voltage at and ind. freq. for 1min	2.5kV

The main technical parameters

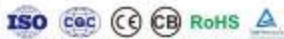
Type	GDL2-40/GDL3-40
Residual current protection type	Electronic/Electromagnetic
Residual current work type	A C type/A type
Rated current	6A, 8A, 10A, 16A, 20A, 25A, 32A, 40A,
Pole	1P+N
Rated voltage Ue	230/240V~
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated sensitivity I _{Δn}	10mA, 30mA, 100mA, 300mA,
Rated breaking capacity	6000A
Break time under I _{Δn}	≤0.1s
Rated impulse withstand voltage (1.5/50)U _{imp}	4kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Thermo-magnetic release characteristic	B, C

6.0kA RCBO



PV DC Fuse link and Base

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Photovoltaic DC Fuse Link



Type	GD-10PV	GD-12PV	GD-13PV
Rated voltage Ue	1000V DC	1500V DC	1500V DC
Fuse Size	10*38mm	10*85mm	14*85mm
Class of Operation		gPV	
Rated current	1-32A	1-32A	8-50A
Standard	IEC 60269-6 UL248-19		
Breaking Capacity	20kA		
Time Constant	1-3ms		

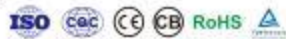
Photovoltaic DC Fuse Base



Type	GDPV-32H/32HZ	GDPV-32/32Z	GDPV-32L/32LZ	GDPV-50L/50LZ	GDPV-50D/50DZ
Instructions	Z:HAVE	Z:HAVE	LZ:HAVE	LZ:HAVE	DZ:HAVE
Rated voltage Ue	1000V DC			1000/1500V DC	
Fuse Size	10*38mm			10*85/14*85mm	
IP Degree	IP20				
Rated current with fuse	GD-10PV:Max 32A			GD-12PV:Max 32A,GD-13PV:Max 50A	
Standard	IEC 60269-2				
Breaking Capacity with fuse	20kA				
Time Constant	1-3ms				
Mounting method	DIN rail installation				

AC Fuse link and Base

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AC Fuse Link



Type	RO15	RS15	RO16	RS16	RO17	RS17
Rated voltage Ue	500/690V AC					
Fuse Size	10*38mm		14*51mm		22*58mm	
Class of Operation	gG	aR	gG	aR	gG	aR
Rated current	2-32A		2-63A		10-125A	
Standard	IEC 60269 UL248					
Breaking Capacity	500V:100kA ,690V:50kA					
Time Constant	1-3ms					

AC Fuse Base



Type	GD18-32	GD18-32Z	RT18-32	RT18-32Z	RT18-63	RT18-63Z	RT18-125	RT18-125Z
Instructions	NO	HAVE	NO	HAVE	NO	HAVE	NO	HAVE
Fuse size	10*38mm RO15/RS1				14*51mm RO16/RS1		22*58mm RO17/RS1	
Mounting method	DIN rail installation							
Rated operational current Ie	Max:32A				Max:63A		Max:125A	
Rated operational Voltage Ue	400/690V AC							
Rated Insulation Voltage Ui	800V AC							
Breaking capacity with fuse	100kA(500V AC)/50kA(690V AC)							
Utilization category	AC-22B						AC-20B	
IP Degree	IP20							

Cylindrical Fuse Links

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Cylindrical Fuse Links



Type	NT00	RS31	NT1	RS32	NT2	RS33	NT3	RS34
Rated voltage Ue	500/690V AC 250V DC							
Domestic and overseas similar products	NT00/NH00	RS31	NT1/NH1	RS32	NT2/NH2	RS33	NT3/NH3	RS34
Class of Operation	gG	aR	gG	aR	gG	aR	gG	aR
Rated current	4-160A		32-250A		80-400A		315-630A	
Standard	IEC 60269-6 UL248-19							
Breaking Capacity	500V AC:120kA/690V AC:50kA/250V DC:100kA							
Time Constant	1-3ms							

Cylindrical Solar DC Fuse Links



Type	GDH00PV	GDH1PV	GDH2PV	GDH3PV	GDH1LPV	GDH2LPV	GDH3LPV	/
Rated voltage Ue	1000V DC				1500V DC			
Adapter base	GDPV-H00B	GDPV-H1B	GDPV-H2B	GDPV-H3B	GDPV-H1LB	GDPV-H2LB	GDPV-H3LB	/
Class of Operation	gPV							
Rated current	50-125A	80-200A	200-315A	315-500A	63-250A	250-400A	400-500A	/
Standard	IEC 60269-6 UL248-19							
Breaking Capacity	50kA				30kA			
Time Constant	1-3ms							

Disconnecter and Fuse Disconnecter

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Cylindrical Fuse Base



Type	HR17-160	HR17-250	HR17-400	HR17-630
Rated operational Voltage Ue	AC400	AC690	AC400	AC690
Rated operational current Ie	160A	100A	250A	200A
Rated Insulation Voltage Ui	1000V			
Fuse size	NT00/RS31	NT1/RS32	NT2/RS33	NT3/RS34
Rated impulse withstand Voltage Uimp	12kV			
Rated limiting short-circuit current Iq	100kA	50kA	100kA	50kA
Use Category	AC-23B(AC400)/AC-21B(AC690)			

Cylindrical Fuse Base



Type	HR18-160	HR18-250	HR18-400	HR18-630
Rated operational Voltage Ue	AC400	AC690	AC400	AC690
Rated operational current Ie	160A	100A	250A	200A
Rated Insulation Voltage Ui	1000V			
Fuse size	NT00/RS31	NT1/RS32	NT2/RS33	NT3/RS34
Rated impulse withstand Voltage Uimp	12kV			
Rated limiting short-circuit current Iq	100kA	50kA	100kA	50kA
Use Category	AC-23B(AC400)/AC-21B(AC690)			

Solar PV Conector

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Solar PV Conector



Technical data	
Rated voltage	1000/1500V DC
Rated current	1-50A
Temperature Range	-40 (...+90 (IEC)/-40 (...+75 (UL)
Upper Temperature Limit	+105 (UL)
Protection level	IP67
Flams class	UL-94-V0

Solar DC Isolator Switch

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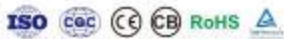
Solar DC Isolator Switch



Technical data						
Rated voltage (Ue)	300V,600V,800V,1000V,1200V DC					
Rated current	16A/25A/32A					
Rated insulation voltage (Ui)	1200V DC					
Rated frequency	DC					
Utilization category	DC-PV2/DC-PV1/DC-21B					
Standard						
Switching Configurations						
/	2P	4P	4T	4B	4S	2H
Contacts Wiring graph						
Switching example						

GDH8 AC Modular Contactor

● GDH8 series modular contactors are mainly suitable for lighting, heating, ventilation, roller shutters, public hot water, mechanical ventilation systems, etc., can be used for remote control in line with IEC international standards,



Solar PV Conector



GDH8-25

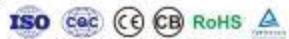
GDH8-63

GDH8-100

Type	Schematic	Rated current(In)		Control voltage(AC) and Order Code	Contact Type	Width (mm)
		AC-7a	AC-7b			
GDH8-16-1P		16A	6A	24V/110V/230V	1NO,1NC	18
GDH8-20-1P		20A	7A		2NO,2NC 1NO+1NC	18
GDH8-25-1P		25A	9A			
GDH8-16-2P		16A	6A			36
GDH8-20-2P		20A	7A			
GDH8-25-2P		25A	9A			
GDH8-32-2P		32A	12A			
GDH8-40-2P		40A	18A			
GDH8-63-2P		63A	25A			
GDH8-100-2P		100A	-		2NO	54
GDH8-16-3P		16A	6A		3NO,3NC	36
GDH8-20-3P		20A	7A			
GDH8-25-3P		25A	9A			
GDH8-32-3P		32A	12A			
GDH8-40-3P		40A	18A			
GDH8-63-3P		63A	25A		4NO,4NC 2NO+2NC 3NO+1NC	54
GDH8-16-4P		16A	6A			
GDH8-20-4P		20A	7A			
GDH8-25-4P		25A	9A			
GDH8-32-4P		32A	12A			
GDH8-40-4P		40A	18A			
GDH8-63-4P		63A	25A			
GDH8-100-4P		100A	-		4NO	108

GDV1/GDV2 Voltage Protector(Single display/dual display)

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Voltage Protector



GDV2-2

GDV2-4

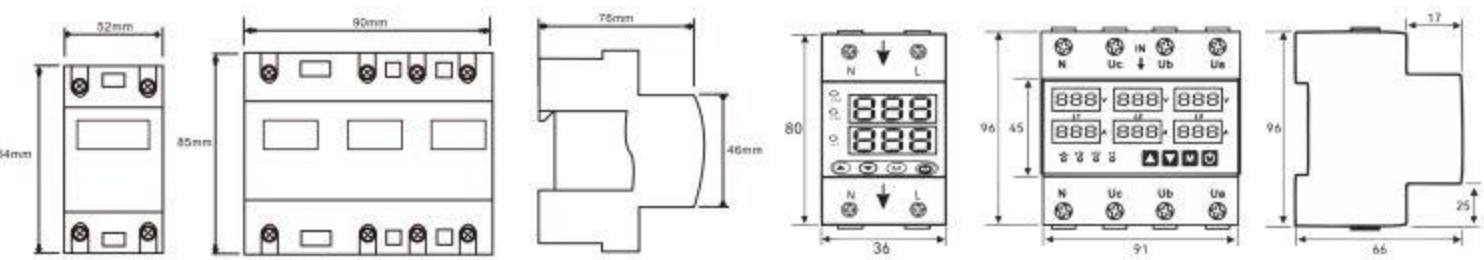
GDV4-2

GDVA4-2

The main technical parameters

Type	GDV2-2	GDV2-4	GDV4-2	GDVA4-2
Rated Working Voltage	220V	220V/380V	110/220V,220/230/240V AC	
Operation Voltage Range	AC80V-400V(Single Phase)	AC140V-500V(Three Phase)	AC80V-400V(Single Phase)	
Rated Frequency	50/60Hz			
Rated Working Current	40A/63A/80A	63/80/100A	40A/63A/80A	
Over-voltage Protection Value	AC230V-AC300V	AC390V-AC500V	230-300V adjustable	
Under-voltage Protection Value	AC140V-AC210V	AC140V-AC370V	110-210V adjustable	
Voltage Power Off Time	1-400s		1-500s	
Over current Protection Value	1-40A/1-63A/1-80A	1-63A	/	1-40A/1-63A/1-80A
Over current Power Off Time	1-30s		1-30s	
Recover time (Starting Delay Time)	1-400s/1-30s	1-400s	1-400s/1-30s	
Own Power Consumption	≤1.5W		≤2W	
Motor Mechanical Life	≥100,000 Times			
Relative Humidity	45-90%RH			
Temperature	40°C			
Altitude	≤2000M			

Size

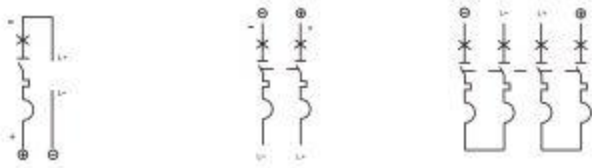


GDGL-125 Isolating switch

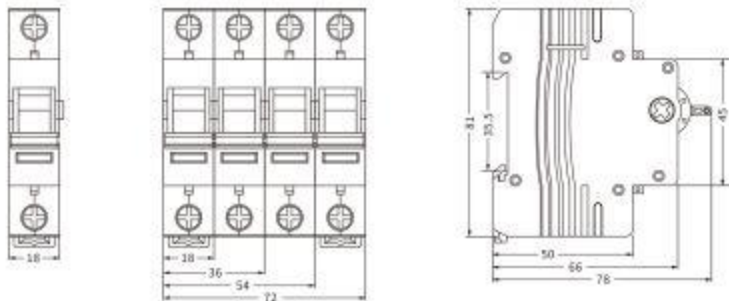
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Circuit Diagram



Size



The main technical parameters

Electrical Features	
Type	GDGL-125
Rated current	32A, 40A, 50A, 63A, 80A, 100A, 125A
Pole	1P, 2P, 3P, 4P
Rated voltage Ue	240/415V~
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated impulse withstand voltage(1.5/50)Uimp	4kV
Dielectric test voltage at and ind.freq.for.1min	2.5kV
Utilization category	AC-22A
Installation	
Contact position indicator	YES
Protection Class	IP20
Electrical life	4000
Mechanical life	10000



Manual Changeover Switch

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The main technical parameters

Type	GDTS-63	GDTS-125
Rated current	1-63A	63-125A
Pole	1P+1P, 2P+2P,	
Rated working voltage	230/400V AC, 250/550V DC,	
Frequency	50HZ	
Rated breaking capacity	4000A	10000A

Manual Transfer Switch (MTS) Interlock Circuit Breaker



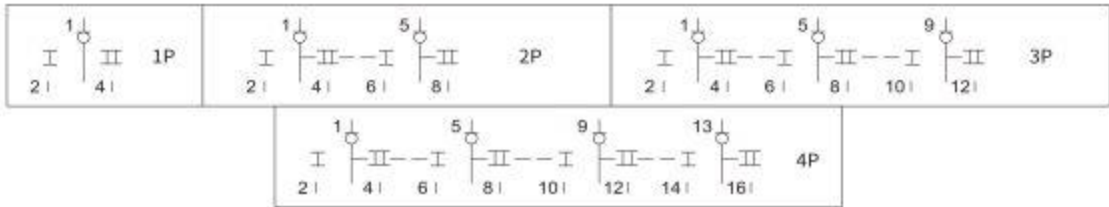
Manual Changeover Switch



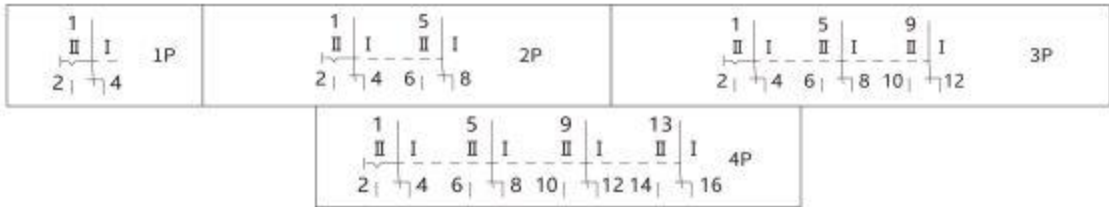
The main technical parameters

Electrical Features		
Type	GDCS-40	GDCS-125
Rated current	16A,25A,32A,40A	63A,80A,100A,125A
Pole	1P,2P,3P,4P	
Rated voltage Ue	240/415V~	
Contact form	1-0-2	
Installation		
Protection Class	IP20	
Electrical life	1500	
Mechanical life	8500	

Circuit Diagram



GDCS-40



GDCS-125

Dual Power Transfer Switch(PC Class)

● Micro-Breaking Dual Power Transfer Switch is suitable for AC 50/60Hz dual power supply system with rated operating voltage of 230/400V and rated operating current form 16~100A. Optional transfer of dual power can be made according to requirement

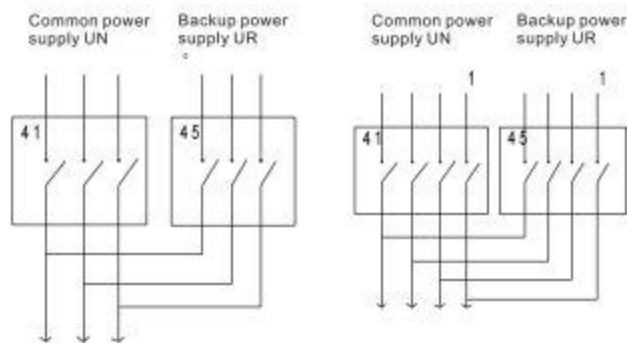


GDS3-100 Series(PC Class)

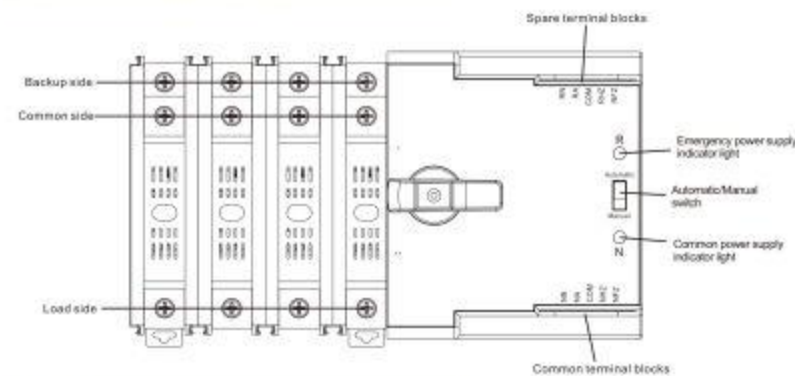


Type	GDS3-100
Shell Frame Current	100A
Rated Current In(A)	10A,16A,25A,32A,40A,50A,63A,80A,100A
Rated Operating Voltage Ue	2P AC 230V 50HZ/4P AC 400V 50HZ
Rated Insulation Voltage Ui	800V
Rated Impulse Withstand Voltage Uimp	8kV
Switching Poles	2P,3P,4P,
Use Category	AC-33iB
Electrical Level	PC Class

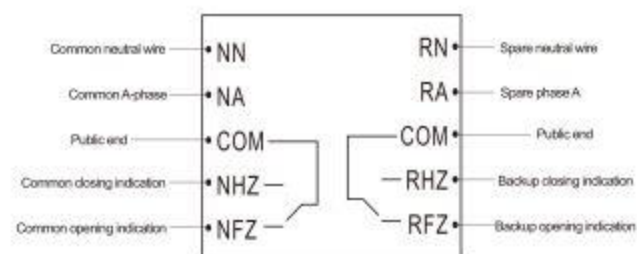
Wiring diagram



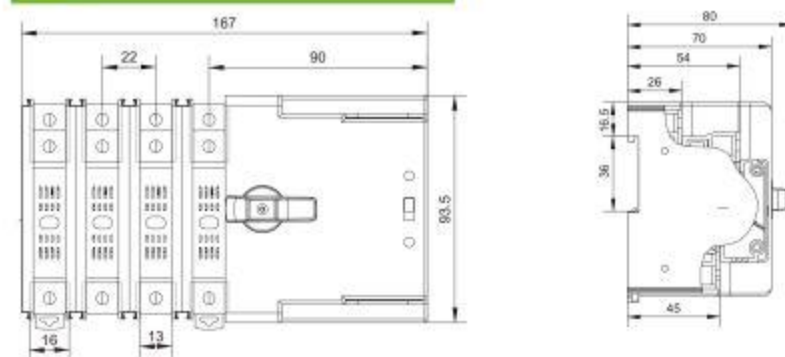
Product Structure Description



External terminal description



Size



Waterproof Flame retardant Distribution Board

● GANDIAN always adhere to the guiding ideology of "sustainable development, cooperation and innovation", and always practice the principle of "living up to standards" with an attitude of "professional, focused, rigorous, and studious""Take responsibility for every share of electricity and make it do its best."



HA and HT Plastic distribution box



GDT-5W



GDT-8W



GDA-4W



GDA-8W



GDT-12W



GDT-15W



GDA-12W



GDT-18W



GDT-24W



GDA-18W



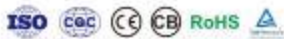
GDA-26W

Type	L	W	H
GDT-5Ways	118.5mm	159mm	88.6mm
GDT-8Ways	200.5mm	154.5mm	88.9mm
GDT-12Ways	255mm	197.5mm	106mm
GDT-15Ways	310mm	197.5mm	106mm
GDT-18Ways	364mm	197.5mm	106mm
GDT-24Ways	275.51mm	356.16mm	106.2mm

Type	L	W	H
GDA-4Ways	142.8mm	210.3mm	99.5mm
GDA-8Ways	215mm	209mm	88mm
GDA-12Ways	298mm	259mm	140mm
GDA-18Ways	411mm	286.3mm	137.8mm
GDA-26Ways	323.5mm	420mm	139.5mm

GDS-PV X/X Solar DC Combiner Box

● GDS-PV combiner box is suitable for inverter (MAX input voltage DC500V/DC1000V/DC1500V, X PV input channel, X 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.



Configuration Description

Type	GDS-PV1/1	GDS-PV2/1	GDS-PV3/1	GDS-PV4/1(4/2)	GDS-PV6/1(6/2)
	Electric parameter				
System maximum dc voltage	500/1000/1500V DC				
Maximum input current for each string	15A				
Maximum input strings	1	2	3	4	6
Maximum output switch current	32A	32A	32A	63A	125A
Maximum of output strings	1	1	1	1/2	1/2
	Lightning protection				
Max. PV voltage (d.c.) (Ucpv)	500/1000/1500V DC				
Max. discharge current (8/20 μs) (Imax)	40kA				
Voltage protection level (Up)	≤2.5/4.0/4.5kV				
Poles	2P/3P				
	System				
Protection grade	IP65				
Output switch	DC MCB(optional)/DC isolation switch(standard)				
Waterproof Connectors	PG/MC4				
PV DC FUSE	Standard				
Monitoring module	Optional				
Box material	PVC				
Installation method	Wall mounting type				
Operating Temperature	-25 °C ... +55 °C				
Permissible relative humidity	0-95%,no condensation				

GDT-PV X/X Solar DC Combiner Box

● GDT-PVX/X combiner box is suitable for inverter (MAX input voltage DC1000V/DC1500V,X PV input channel, Xoutput channel, single MPPT inverter).Box body is made of PVC engineering aterials, with test for fire retardant, temperature rise,anti impact, anti ultraviolet and other testing.



Configuration Description

Type	GDT-PV1/1	GDT-PV2/1	GDT-PV3/1	GDT-PV4/1	GDT-PV6/1	GDT-PV8/1
	Electric parameter					
System maximum dc voltage	1000/1500V DC					
Maximum input current for each string	15A					
Maximum input strings	1	2	3	4	6	8
Maximum output switch current	32A	32A	32A	63A	80A	125A
Maximum of output strings	1	1	1	1	1	1
Type	GDT-PV12/1		GDT-PV16/1		GDT-PV24/1	
	Electric parameter					
System maximum dc voltage	1000/1500V DC					
Maximum input current for each string	15A					
Maximum input strings	12		16		24	
Maximum output switch current	200A		250A		400A	
Maximum of output strings	1		1		1	
	Lightning protection					
Max. PV voltage (d.c.) (Ucpv)	500/1000/1500V DC					
Max. discharge current (8/20 μs) (Imax)	40kA					
Voltage protection level (Up)	≤2.5/4.0/4.5kV					
Poles	2P/3P					
	System					
Protection garde	IP65					
Output switch	DC MCB(optional)/DC isolation switch(standard)					
Waterproof Connectors	PG/MC4					
PV DC FUSE	Standard					
Monitoring module	Optional					
Box material	PVC					
Installation method	Wall mounting type					
Operating Temperature	-25 °C ... +55 °C					
Permissible relative humidity	0-95%,no condensation					