

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**



# PHOTOVOLTAIC FUSES

## Solutions Catalogue

### GANDIAN LIGHTNING PROTECTION ELECTRI CO.LTD.

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BEST  
LIFE

BEST  
ELECTRIC

# GA&DA

## Gandianfanglei

Better life, better electricity

不辜负每一份电力，让电尽其所能

# GANDIAN LANGYONG

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 29970.16 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, CQC 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 Wait. 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.



# 实验设备 Laboratory And Testing



# 证书 Certificate And International Patents



ISO14001



ISO9001



OHSAS18001



CB



CQC



型式试验



TUV-CE



TUV



试验报告

## GD-10PV/PVD/PVS

1000V DC 1A-32A

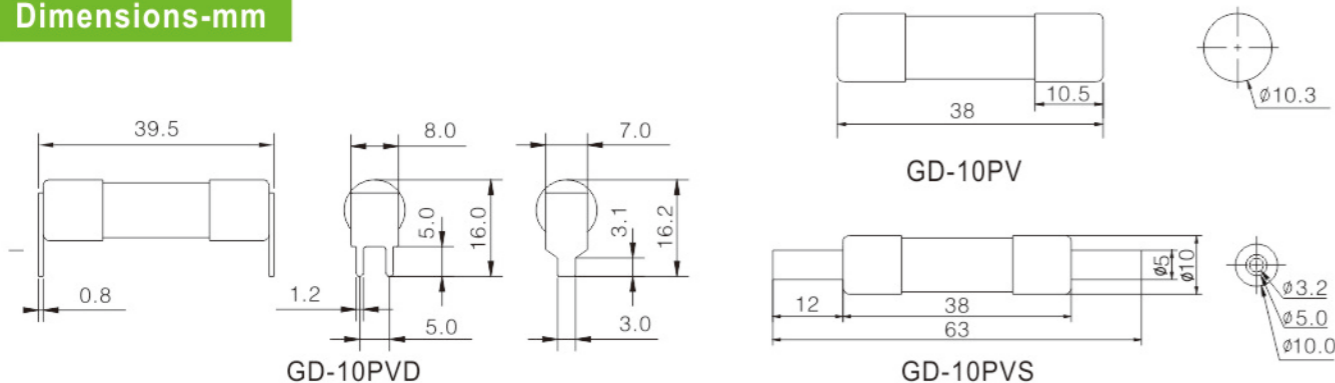


GD-10PV 10X38mm 1A-32A 1000V DC  
 GD-10PVD 10X38mm 1A-32A 1000V DC  
 GD-10PVS 10X38mm 1A-32A 1000V DC

### Photovoltaic Fuse

- Fuse Size: 10x38mm
- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19
- Breaking Capacity: 20kA
- Time Constant: 1-3ms
- Base: GDPV-32/GDPV-32C/GDPV-32L/GDPV-32H/GDPV-32D

### Dimensions-mm



Type	Rated current	Energy Integrals I <sup>2</sup> t (A <sup>2</sup> s)		Order number
		Pre-arcing	Total	
GD-10PV/PVD/PVS-1A	1A	0.15	0.4	220001/220002/220003
GD-10PV/PVD/PVS-2A	2A	1.2	3.3	220004/220005/220006
GD-10PV/PVD/PVS-3A	3A	3.9	11	220007/220008/220009
GD-10PV/PVD/PVS-4A	4A	10	27	220010/220011/220012
GD-10PV/PVD/PVS-5A	5A	18	48	220013/220014/220015
GD-10PV/PVD/PVS-6A	6A	31	89	220016/220017/220018
GD-10PV/PVD/PVS-8A	8A	3.1	31	220019/220020/220021
GD-10PV/PVD/PVS-10A	10A	7.2	68	220022/220023/220024
GD-10PV/PVD/PVS-12A	12A	16	136	220025/220026/220027
GD-10PV/PVD/PVS-15A	15A	24	215	220028/220029/220030
GD-10PV/PVD/PVS-16A	16A	28	255	220031/220032/220033
GD-10PV/PVD/PVS-20A	20A	38	392	220034/220035/220036
GD-10PV/PVD/PVS-25A	25A	71	508	220037/220038/220039
GD-10PV/PVD/PVS-30A	30A	102	821	220040/220041/220042
GD-10PV/PVD/PVS-32A	32A	176	976	220043/220044/220045

## GD-11PV/PVS

1500V DC 1A-25A

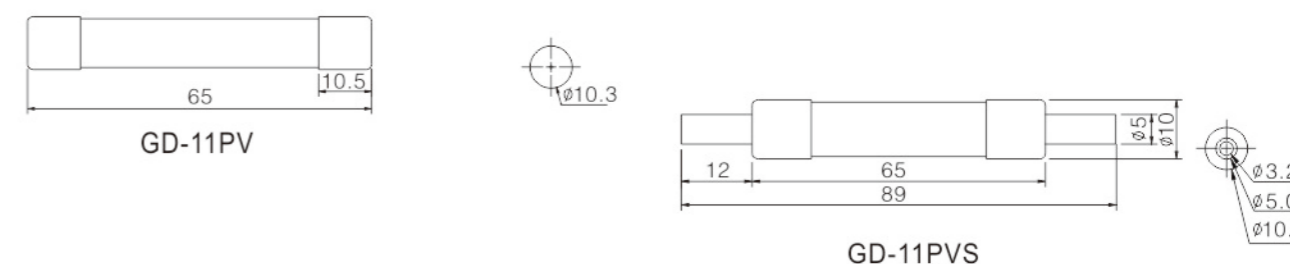


GD-11PV 10X65mm 1A-25A 1500V DC  
 GD-11PVS 10X65mm 1A-25A 1500V DC

### Photovoltaic Fuse

- Fuse Size: 10x65mm
- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19
- Breaking Capacity: 20kA
- Time Constant: 1-3ms
- Base: /

### Dimensions-mm



Type	Rated current	Energy Integrals I <sup>2</sup> t (A <sup>2</sup> s)		Order number
		Pre-arcing	Total	
GD-11PV/PVS-1A	1A	0.15	0.4	220046/220047
GD-11PV/PVS-2A	2A	1.2	3.3	220048/220049
GD-11PV/PVS-3A	3A	3.9	11	220050/220051
GD-11PV/PVS-4A	4A	10	27	220052/220053
GD-11PV/PVS-5A	5A	18	48	220054/220055
GD-11PV/PVS-6A	6A	31	89	220056/220057
GD-11PV/PVS-8A	8A	3.1	31	220058/220059
GD-11PV/PVS-10A	10A	7.2	68	220060/220061
GD-11PV/PVS-12A	12A	16	136	220062/220063
GD-11PV/PVS-15A	15A	24	215	220064/220065
GD-11PV/PVS-20A	20A	38	392	220066/220067
GD-11PV/PVS-25A	25A	71	508	220068/220069

## GD-12PV

1000V/1500V DC 1A-35A

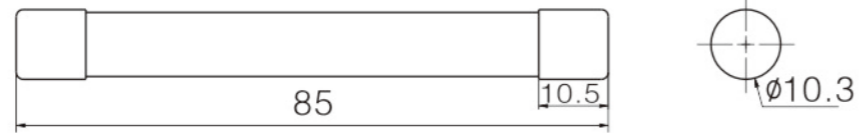


GD-12PV 10X85mm 1A-35A 1000V DC  
GD-12PVS 10X85mm 1A-35A 1500V DC

### Photovoltaic Fuse

- ✚ Fuse Size: 10x85mm
- ✚ Class of Operation: gPV
- ✚ Standard: IEC 60269-6 UL248-19
- ✚ Breaking Capacity: 20kA
- ✚ Time Constant: 1-3ms
- ✚ Base: GDPV-50/GDPV-50C/GDPV-50L/GDPV-50H/GDPV-50D

### Dimensions-mm



GD-12PV/PVS

Type	Rated current	Energy Integrals I²t (A²s)		Order number
		Pre-arcing	Total	
GD-12PV/PVS-1A	1A	2.3	3.1	220070/220071
GD-12PV/PVS-2A	2A	4	8	220072/220073
GD-12PV/PVS-3A	3A	6	11	220074/220075
GD-12PV/PVS-4A	4A	8	14	220076/220077
GD-12PV/PVS-5A	5A	11	22	220078/220079
GD-12PV/PVS-6A	6A	15	30	220080/220081
GD-12PV/PVS-8A	8A	9	35	220082/220083
GD-12PV/PVS-10A	10A	10	98	220084/220085
GD-12PV/PVS-12A	12A	12	120	220086/220087
GD-12PV/PVS-15A	15A	14	170	220088/220089
GD-12PV/PVS-16A	16A	34	400	220090/220091
GD-12PV/PVS-20A	20A	65	550	220092/220093
GD-12PV/PVS-25A	25A	85	680	220094/220095
GD-12PV/PVS-30A	30A	90	720	220096/220097
GD-12PV/PVS-32A	32A	125	800	220098/220099
GD-12PV/PVS-35A	35A	390	2844	220100/220101

## GD-13PV

1500V DC 8A-50A

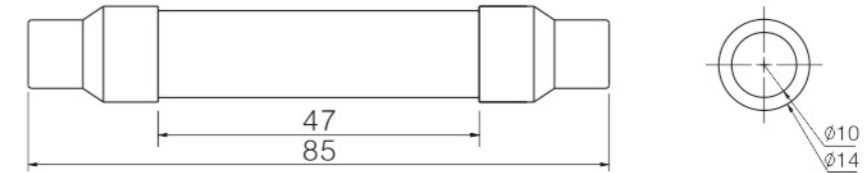


GD-13PV 14X85mm 8A-50A 1500V DC

### Photovoltaic Fuse

- ✚ Fuse Size: 14x85mm
- ✚ Class of Operation: gPV
- ✚ Standard: IEC 60269-6 UL248-19
- ✚ Breaking Capacity: 20kA
- ✚ Time Constant: 1-3ms
- ✚ Base: GDPV-50/GDPV-50C/GDPV-50L/GDPV-50H/GDPV-50D

### Dimensions-mm



GD-13PV

Type	Rated current	Energy Integrals I²t (A²s)		Order number
		Pre-arcing	Total	
GD-13PV-8A	8A	9	35	220102
GD-13PV-10A	10A	10	98	220103
GD-13PV-12A	12A	12	120	220104
GD-13PV-15A	15A	14	170	220105
GD-13PV-16A	16A	20	280	220106
GD-13PV-20A	20A	34	400	220107
GD-13PV-25A	25A	65	550	220108
GD-13PV-30A	30A	85	680	220109
GD-13PV-32A	32A	90	720	220110
GD-13PV-35A	35A	110	750	220111
GD-13PV-40A	40A	125	800	220112
GD-13PV-45A	45A	135	850	220113
GD-13PV-50A	50A	155	920	220114

## GD-14PV/PVS

1000V/1500V DC 15A-50A



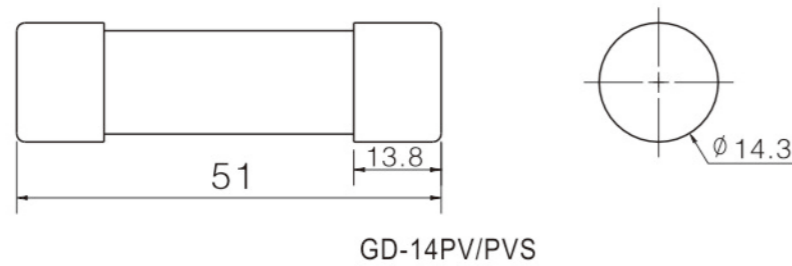
GD-14PV 14X51mm 15A-50A 1000V DC  
 GD-14PVS 14X51mm 15A-35A 1500V DC



### Photovoltaic Fuse

- ✚ Fuse Size: 14x51mm
- ✚ Class of Operation: gPV
- ✚ Standard: IEC 60269-6 UL248-19
- ✚ Breaking Capacity: 20kA
- ✚ Time Constant: 1-3ms
- ✚ Base: GDPV-50B

### Dimensions-mm



Type	Rated current	Energy Integrals I²t (A²s)		Order number
		Pre-arcing	Total	
GD-14PV/PVS-15A	15A	330	275	220115/220116
GD-14PV/PVS-16A	16A	330	275	220117/220118
GD-14PV/PVS-20A	20A	220	578	220119/220120
GD-14PV/PVS-25A	25A	275	956	220121/220122
GD-14PV/PVS-30A	30A	380	1160	220123/220124
GD-14PV/PVS-32A	32A	405	1830	220125/220126
GD-14PV/PVS-35A	35A	405	1830	220127/220128
GD-14PV-40A	40A	600	2430	220129
GD-14PV-45A	45A	750	2650	220130
GD-14PV-50A	50A	850	3050	220131

## GD-15PV

1500V DC 30A-50A



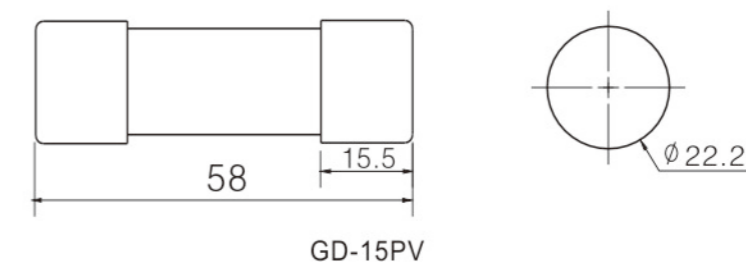
GD-15PV 22X58mm 30A-50A 1500V DC



### Photovoltaic Fuse

- ✚ Fuse Size: 22x58mm
- ✚ Class of Operation: gPV
- ✚ Standard: IEC 60269-6 UL248-19
- ✚ Breaking Capacity: 20kA
- ✚ Time Constant: 1-3ms
- ✚ Base: GDPV-22B

### Dimensions-mm



Type	Rated current	Energy Integrals I²t (A²s)		Order number
		Pre-arcing	Total	
GD-15PV-30A	30A	380	1160	220132
GD-15PV-32A	32A	405	1830	220133
GD-15PV-35A	35A	405	1830	220134
GD-15PV-40A	40A	750	3450	220135
GD-15PV-45A	45A	900	4250	220136
GD-15PV-50A	50A	1020	5050	220137

# GDPV-32/32L/32H/32D

1000V DC 32A



## GDPV-32

GDPV-32 32A 1000V DC (10X38mm)  
 GDPV-32Z 32A 1000V DC (Status indication)

### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-32(220191), GDPV-32Z(220192)

### Dimensions-mm

The new mold is under development, and the estimated launch time is 2022/07

The new mold is under development, and the estimated launch time is 2022/07

# GDPV-32/32L/32H/32D

1000V DC 32A



## GDPV-32C

GDPV-32C 32A 1000V DC (10X38mm)  
 GDPV-32CZ 32A 1000V DC (Status indication)

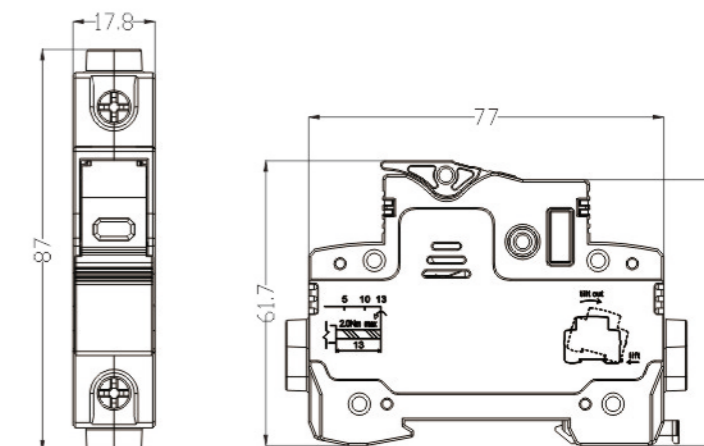
### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-32C(220201), GDPV-32CZ(220202)

### Dimensions-mm



Type	GDPV-32C/1P	GDPV-32C/2P	GDPV-32C/3P	GDPV-32C/4P
Order Code	220201	220203	220205	220207
Type	GDPV-32CZ/1P	GDPV-32CZ/2P	GDPV-32CZ/3P	GDPV-32CZ/4P
Order Code	220202	220204	220206	220208



## GDPV-32L



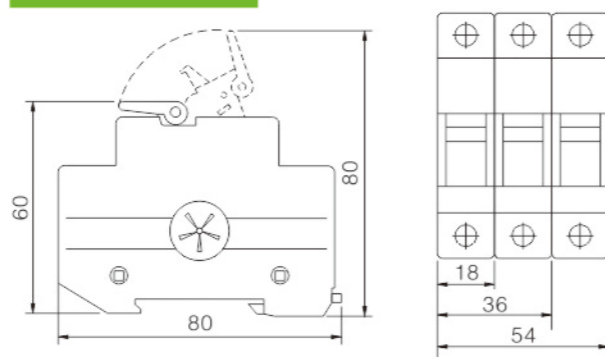
Type	GDPV-32L/1P	GDPV-32L/2P	GDPV-32L/3P	GDPV-32L/4P
Order Code	220193	220195	220197	220199
Type	GDPV-32LZ/1P	GDPV-32LZ/2P	GDPV-32LZ/3P	GDPV-32LZ/4P
Order Code	220194	220196	220198	220200

GDPV-32L 32A 1000V DC (10X38mm)  
 GDPV-32LZ 32A 1000V DC (Status indication)

### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-32L(220193), GDPV-32LZ(220194)

### Dimensions-mm



## GDPV-32D



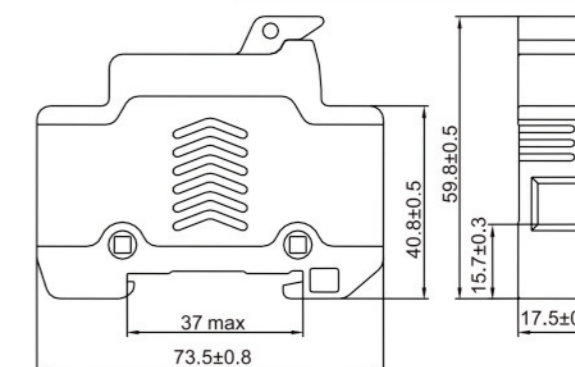
Type	GDPV-32D/1P	GDPV-32D/2P	GDPV-32D/3P	GDPV-32D/4P
Order Code	220209	220211	220213	220215
Type	GDPV-32DZ/1P	GDPV-32DZ/2P	GDPV-32DZ/3P	GDPV-32DZ/4P
Order Code	220210	220212	220214	220216

GDPV-32D 32A 1000V DC (10X38mm)  
 GDPV-32DZ 32A 1000V DC (Status indication)

### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-32D(220209), GDPV-32DZ(220210)

### Dimensions-mm



# GDPV-50/50L/50H/50D

1000V/1500V DC 50A



# GDPV-50/50L/50H/50D

1000V/1500V DC 50A



## GDPV-50

GDPV-50 50A 1000V/1500V DC (10X85/14X85mm)  
 GDPV-50Z 50A 1000V/1500V DC (Status indication)

### Photovoltaic Fuse

- \* Rated Voltage: 1000V/1500 DC
- \* Class of Operation: gPV
- \* Standard: IEC 60269-6 UL248-19
- \* Order number: GDPV-50(220217), GDPV-50Z(220218)

### Dimensions-mm

The new mold is under development,  
 and the estimated launch time is 2022/07

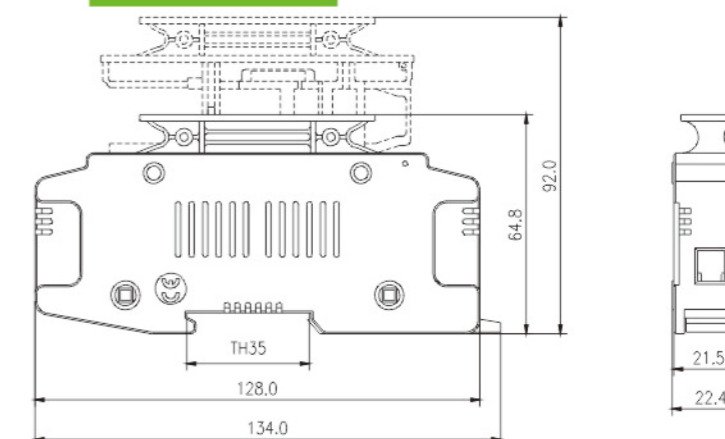
## GDPV-50H

GDPV-50H 50A 1000V/1500V DC (10X85/14X85mm)  
 GDPV-50HZ 50A 1000V/1500V DC (Status indication)

### Photovoltaic Fuse

- \* Rated Voltage: 1000V/1500V DC
- \* Class of Operation: gPV
- \* Standard: IEC 60269-6 UL248-19
- \* Order number: GDPV-50H(220221), GDPV-50HZ(220222)

### Dimensions-mm



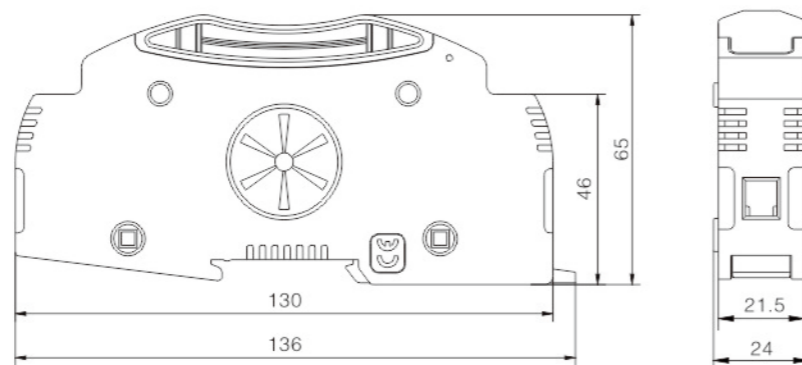
## GDPV-50L

GDPV-50L 50A 1000V/1500V DC (10X85/14X85mm)  
 GDPV-50LZ 50A 1000V/1500V DC (Status indication)

### Photovoltaic Fuse

- \* Rated Voltage: 1000V/1500V DC
- \* Class of Operation: gPV
- \* Standard: IEC 60269-6 UL248-19
- \* Order number: GDPV-50L(220219), GDPV-50LZ(220220)

### Dimensions-mm



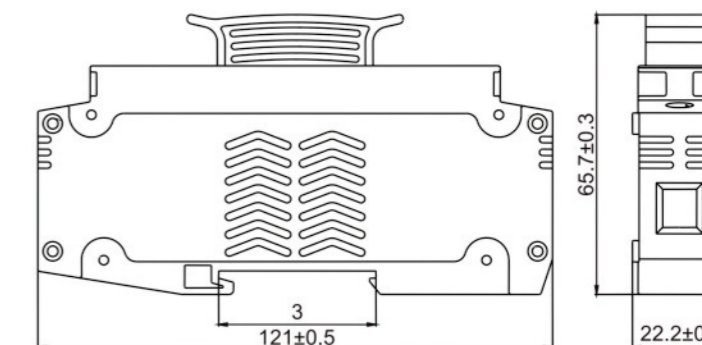
## GDPV-50D

GDPV-50D 50A 1000V/1500V DC (10X85/14X85mm)  
 GDPV-50DZ 50A 1000V/1500V DC (Status indication)

### Photovoltaic Fuse

- \* Rated Voltage: 1000V/1500V DC
- \* Class of Operation: gPV
- \* Standard: IEC 60269-6 UL248-19
- \* Order number: GDPV-50D(220223), GDPV-50DZ(220224)

### Dimensions-mm



The new mold is under development,  
 and the estimated launch time is 2022/07



# GDPV-50B/GDPV-22B

1000V DC 32A



# Time Current Curve

GD-10PV/11PV/12PV/13PV/14PV/15PV



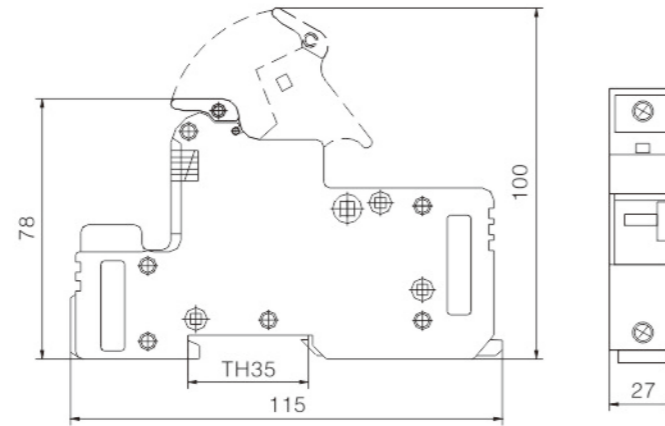
## GDPV-50B

GDPV-50B 50A 1000V DC (14X51mm)

### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V/1500V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-50B(220225)

### Dimensions-mm



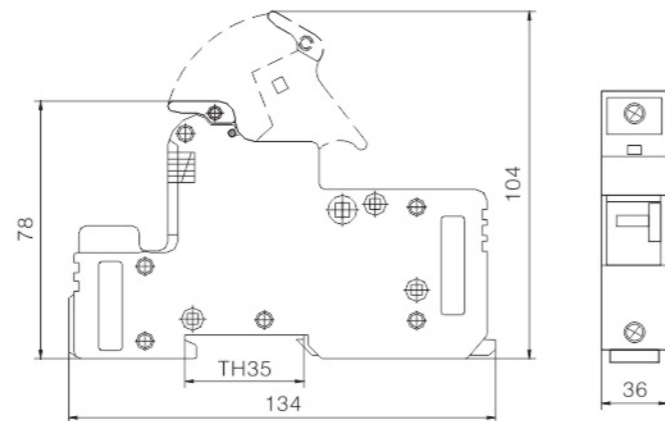
## GDPV-22B

GDPV-22B 50A 1500V DC (22X58mm)

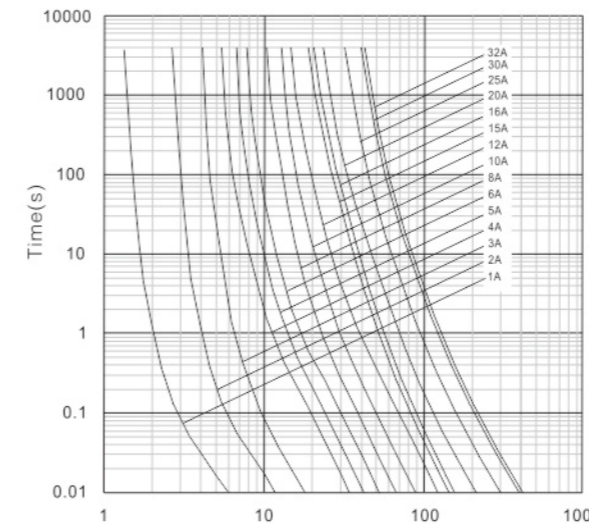
### Photovoltaic Fuse

- ✦ Rated Voltage: 1000V/1500V DC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6 UL248-19
- ✦ Order number: GDPV-22B(220226)

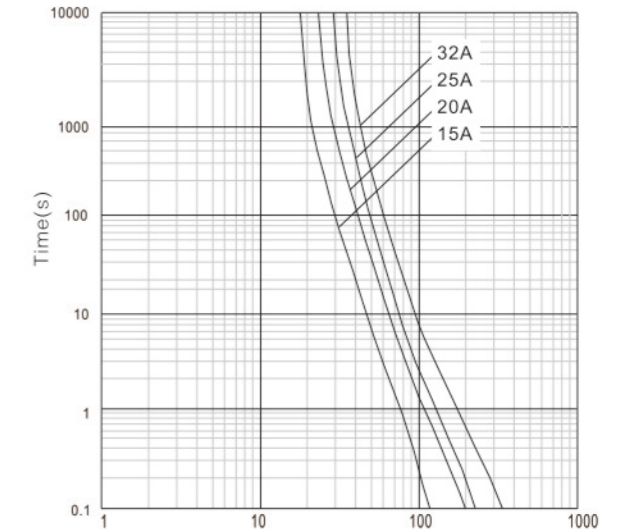
### Dimensions-mm



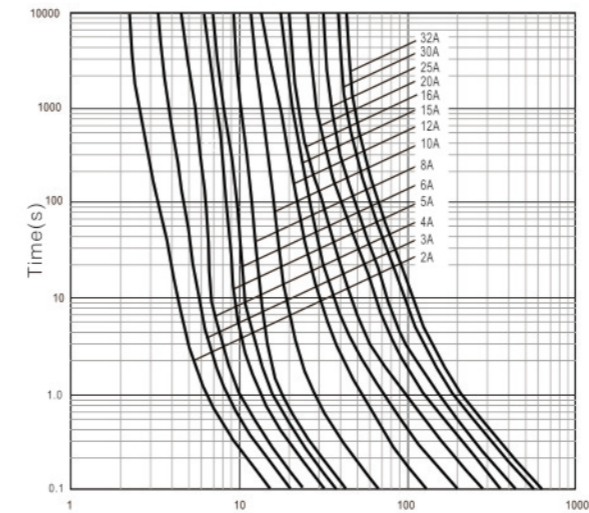
### Time Current Curve



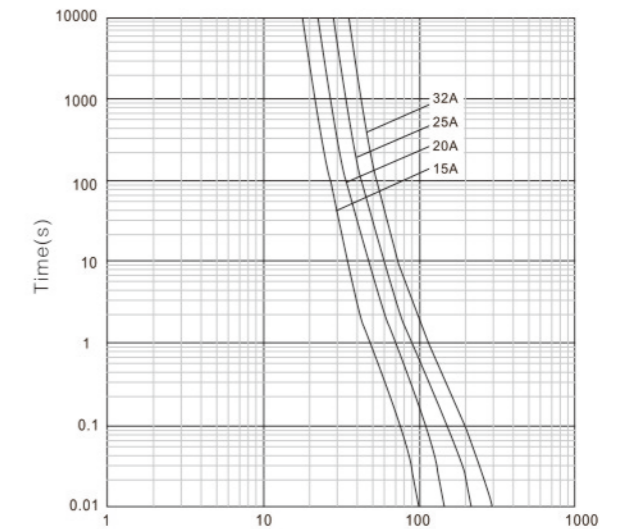
GD-10PV Prospective current (A RMS)



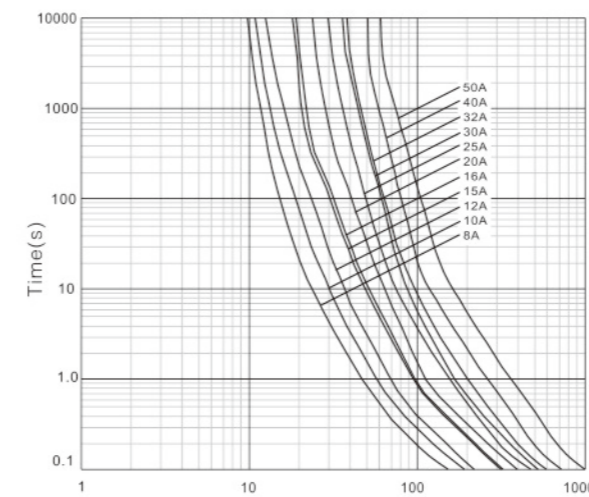
GD-11PV Prospective current (A RMS)



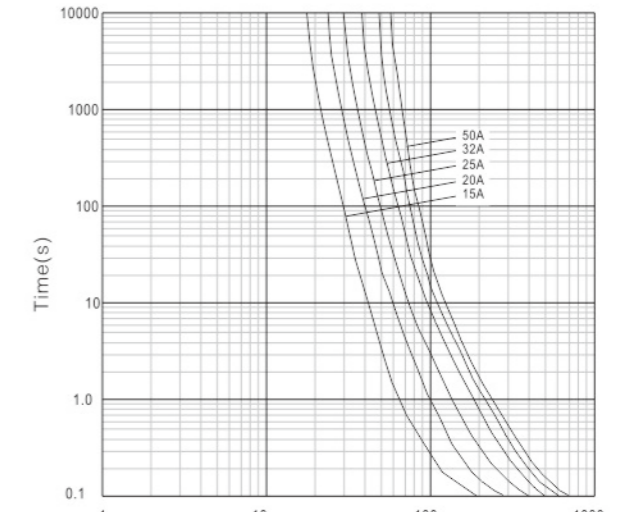
GD-12PV Prospective current (A RMS)



GD-14PV Prospective current (A RMS)



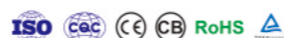
GD-13PV Prospective current (A RMS)



GD-15PV Prospective current (A RMS)

## GD-H0/H1/H2/H3PV

1000V DC 16A-400A

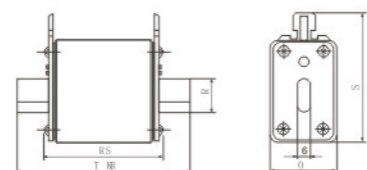


GD-H0PV	16-100A	1000V DC	Order number:220138~220149
GD-H1PV	32-160A	1000V DC	Order number:220150~220159
GD-H2PV	160-250A	1000V DC	Order number:220160~220162
GD-H3PV	250-400A	1000V DC	Order number:220163~220165

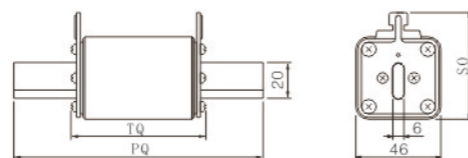
### Photovoltaic Fuse

- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19
- Breaking Capacity: 50kA
- Time Constant: 1-3ms

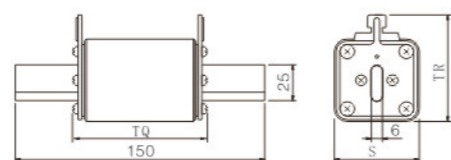
### Dimensions-mm



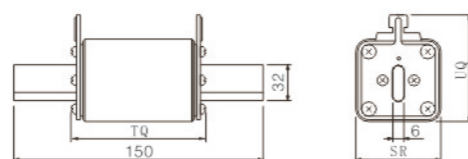
GD-H0PV



GD-H1PV



GD-H2PV



GD-H3PV



## GDPV-H0/H1/H2/H3B

1000V DC 16A-400A

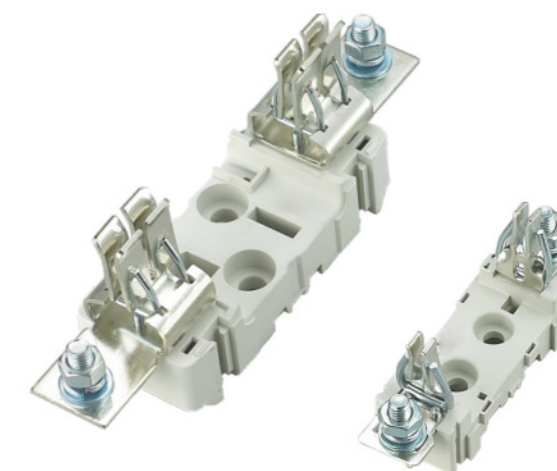
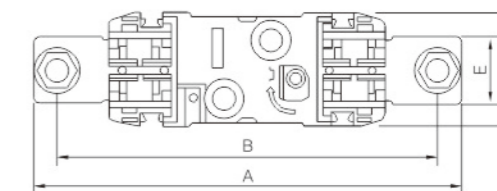
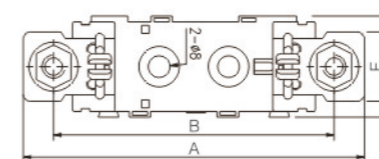
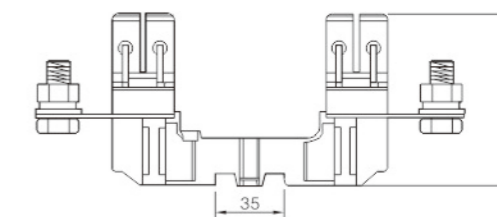
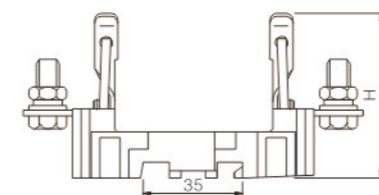


GDPV-H0B	1000V DC	Order number:220227
GDPV-H1B	1000V DC	Order number:220228
GDPV-H2B	1000V DC	Order number:220228
GDPV-H3B	1000V DC	Order number:220229

### Photovoltaic Fuse

- Rated Voltage:1000V DC
- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19

### Dimensions-mm



Type	Applicable fuse link	Rated current	Rated current	Size				
				A	B	C	E	H
GDPV-H0B	CF-H0PV	1000V DC	160A	119	0	34	23	57
GDPV-H1B	CF-H0PV	1000V DC	250A	0 U	176	58	32	82
GDPV-H2B	CF-H0PV	1000V DC	400A	224	U	58	35	89
GDPV-H3B	CF-H0PV	1000V DC	630A	239	207	58	40	106

## GD-H1L/H2L/H3LPV

1500V DC 35A-500A

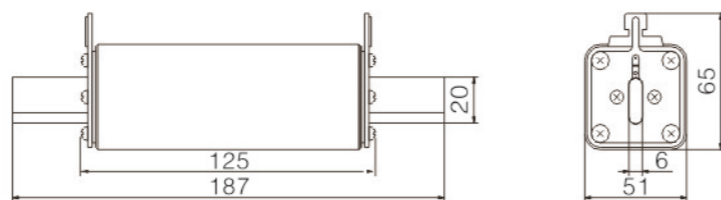


GD-H1LPV	35-200A	1500V DC	Order number:220166~220175
GD-H2LPV	80-400A	1500V DC	Order number:220176~220183
GD-H3LPV	125-500A	1500V DC	Order number:220184~220190

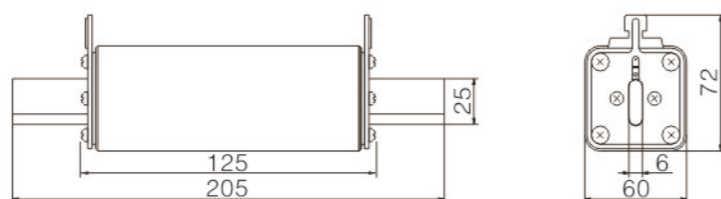
### Photovoltaic Fuse

- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19
- Breaking Capacity: 30kA
- Time Constant: 1-3ms

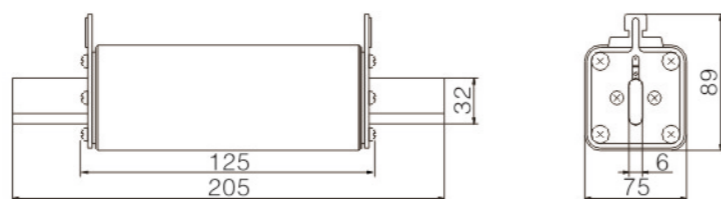
### Dimensions-mm



GD-H1LPV



GD-H2LPV



GD-H3LPV

## GDPV-H1L/H2L/H3LB

1500V DC 630A

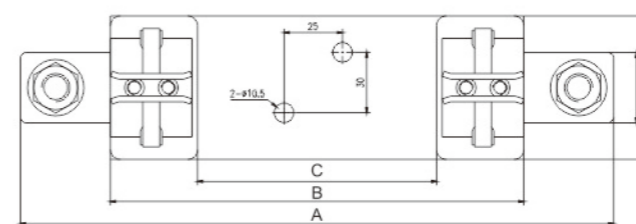


GDPV-H1LB	1500V DC	Order number:220230
GDPV-H2LB	1500V DC	Order number:220231
GDPV-H3LB	1500V DC	Order number:220232

### Photovoltaic Fuse

- Rated Voltage:1500V DC
- Class of Operation: gPV
- Standard: IEC 60269-6 UL248-19

### Dimensions-mm



Type	Applicable fuse link	Rated current	Rated current	Size				
				A	B	C	E	H
GDPV-H1LB	CF-H1LPV	1500V DC	250A	247	190	129	52	91
GDPV-H2LB	CF-H2LPV	1500V DC	400A	278	210	135	63	104
GDPV-H3LB	CF-H3LPV	1500V DC	630A	300	210	135	63	108