

# PV DC FUSE

DC Fuse mainly used in DC combiner box in solar PV systems. When PV panel or inverter causes overload or short circuit, it trip off immediately, to protect PV panels. DC fuse also used to protect other electrical parts in DC circuit, when overload or short circuit.

Nylon shell, resistant to high temperatures



Maximum current 400A maximum voltage DC1200V



## SRD-32gPV 1A-32A Photovoltaic Fuse

Standard: IEC 60269-6, GB/T 13539.6

### Interrupting Capacity

30,000 amperes at 1000V DC (Time Constant: 1-3ms)



### Specifications

Catalog No.	Current Rating	Safety Approvals
		TUV
32gPV1U0	1A	●
32gPV2U0	2A	●
32gPV3U0	3A	●
32gPV3.5U0	3.5A	●
32gPV4U0	4A	●
32gPV5U0	5A	●
32gPV6U0	6A	●
32gPV8U0	8A	●
32gPV10U0	10A	●
32gPV12U0	12A	●
32gPV15U0	15A	●
32gPV16U0	16A	●
32gPV20U0	20A	●
32gPV25U0	25A	●
32gPV30U0	30A	●
32gPV32U0	32A	●

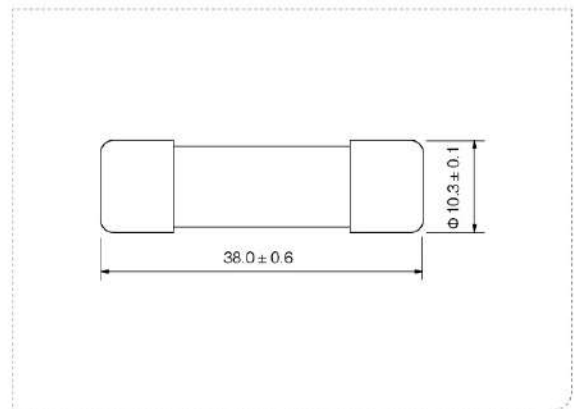
U0 Denotes For 1000V DC:

● Denotes For Approval ○ Denotes For Pending

### Electrical Characteristics

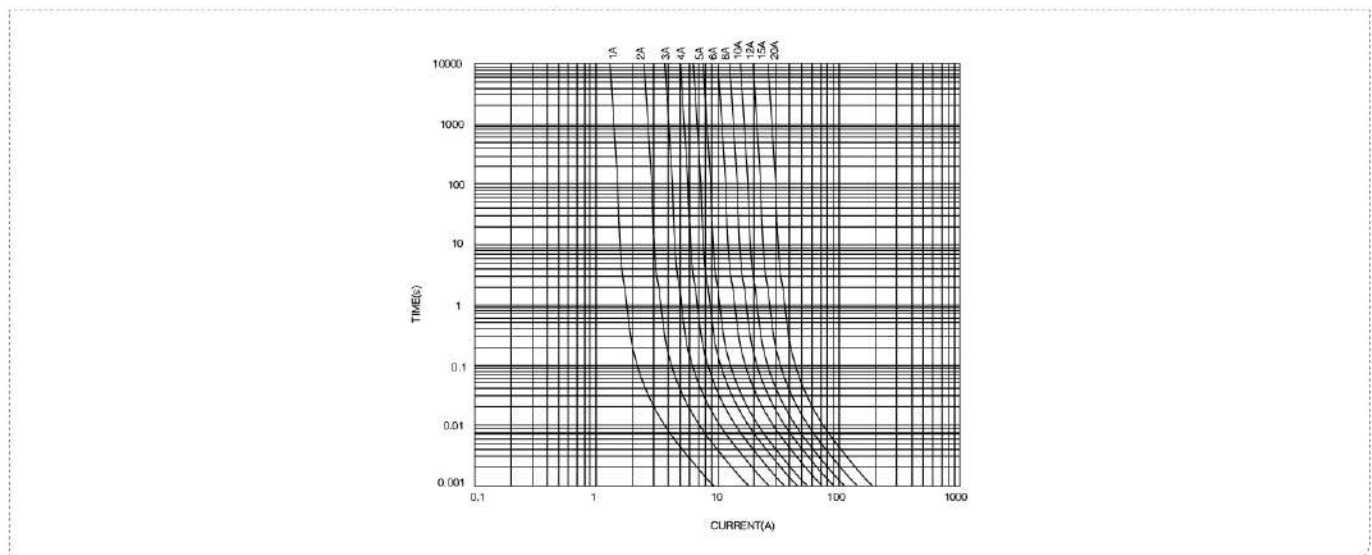
% of Current Rating	Blowing Time
113%	1 hour Min.
145%	1 hour Max.

### Dimensions



### SRD-32gPV

Average I-T Characteristics Curve  
(For Reference Only)



## SNH1gPV 1000V DC 32A-160A Photovoltaic Fuse



Standard: IEC 60269-6, GB/T 13539.6

### Interrupting Capacity

50,000 amperes at 1000V DC (Time Constant: 1-3 ms)

### SNH1B

Recommended fuse-base for NH1 fuse  
See Model of product: NH1B



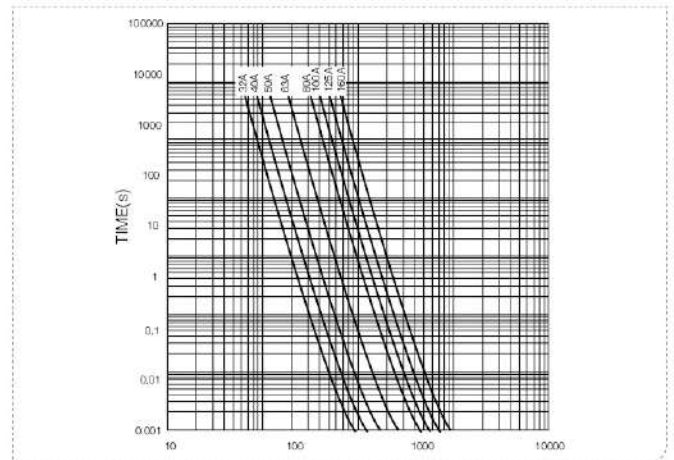
### Specifications

Catalog No.	Current Rating	Safety APprovals
		TUV
SNH1gPV32U0	32A	○
SNH1gPV40U0	40A	○
SNH1gPV50U0	50A	○
SNH1gPV63U0	63A	○
SNH1gPV80U0	80A	○
SNH1gPV100U0	100A	○
SNH1gPV125U0	125A	○
SNH1gPV160U0	160A	○

U0 Denotes For 1000V DC  
● Denotes For Approval ○ Denotes For Pending

### SNH1gPV

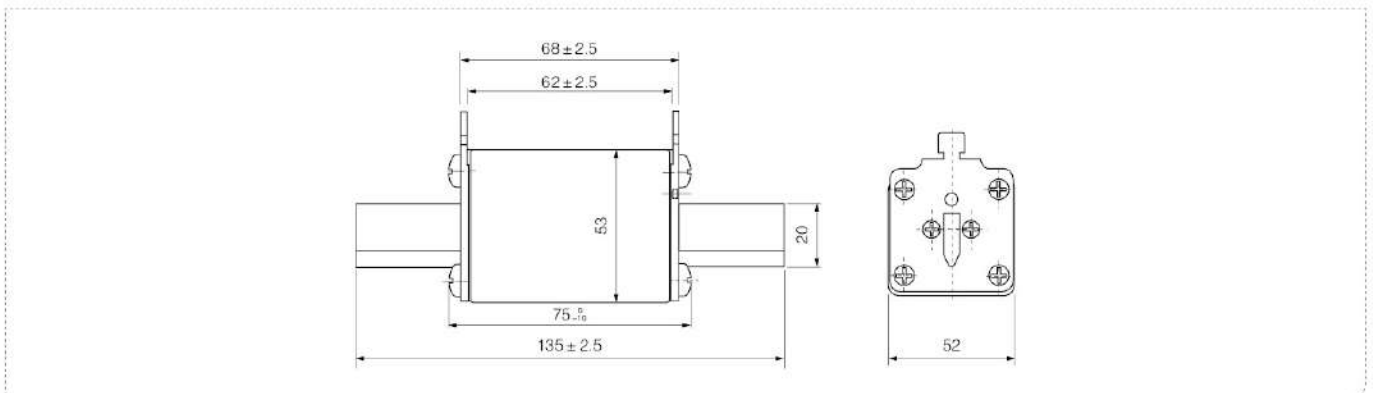
Average I-T Characteristics Curve (For Reference Only)



### Electrical Characteristics

Rating	Blowing Time	
	1.13In	1.45In
In ≤ 60	1 hour Min.	1 hour Max.
63 < In ≤ 160	2 hour Min.	2 hour Max.

### Dimensions(mm)



## SNH2XLg PV 1100V DC 125A-400A Photovoltaic Fuse

Standard: IEC 60269-6, GB/T 13539.6

### Interrupting Capacity

30,000 Amperes At 1100V DC (Time Constant: 1-3ms)



CE  ROHS

### Specifications

Catalog No.	Current Rating	Safety Approvals	
		CGC	TUV
2XLgPV125U11A/B	125A	●	●
2XLgPV160U11A/B	160A	●	●
2XLgPV200U11A/B	200A	●	●
2XLgPV250U11A/B	250A	●	●
2XLgPV315U11A/B	315A	●	●
2XLgPV350U11A/B	350A	●	●
2XLgPV400U11A/B	400A	●	●

U11 Denotes For 1100V  
 ● Denotes For Approval ○ Denotes For Pending

### Electrical Characteristics

Rating	Conventional TIME(H)	Conventional Current	
		Conventional Non-Fusing Current(A)	Conventional Fusing Current(A)
$I_n \leq 60$	2	1.13I <sub>n</sub>	1.45I <sub>n</sub>
$160 < I_n \leq 400$	3		

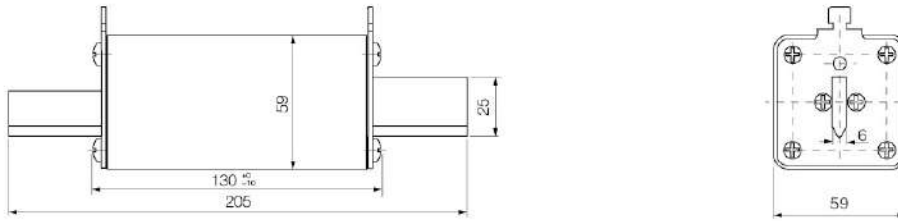
### SNH2XLB

Recommended fuse-base for NH2XL fuse  
 See Model of product: NH2XLB NH3LB

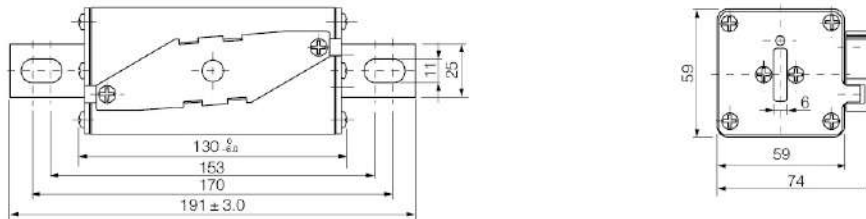
CE  ROHS

### Dimensions(mm)

Part No.:SNH2XLgPV (amp rating) U11A

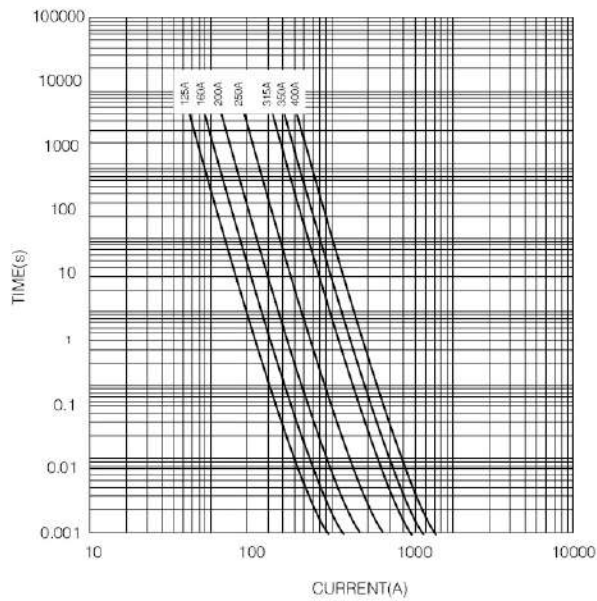


Part No.:SNH2XLgPV (amp rating) U11B



### SNH2XLg PV 1100V

Average I-T Characteristics Curve(For Reference Only)



## Fuse-base with Blade Contacts



SNH00B



SNH1/2/3B



SNH1/2XLB, NH3LB

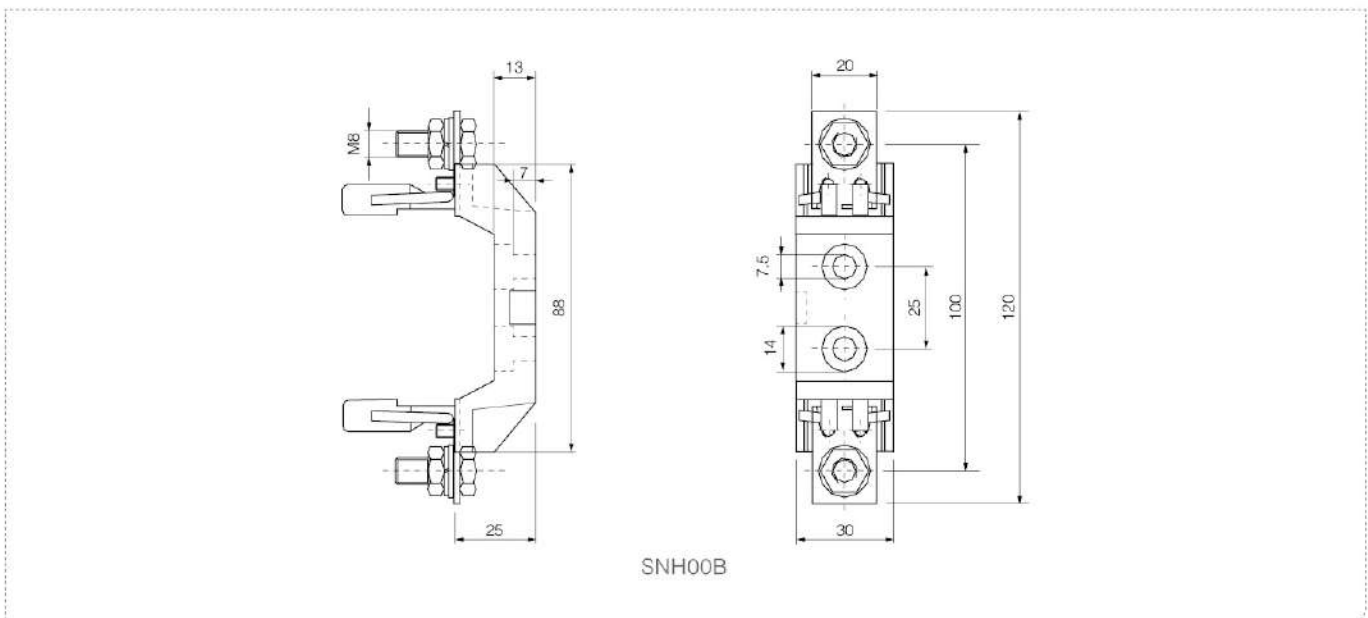
### Specifications

Model of product	Applicable fuse link size	Rated voltage	Rated current	Safety Approvals
SNH00B	SNH000/NH00	690	160	CCC
		1000	160	

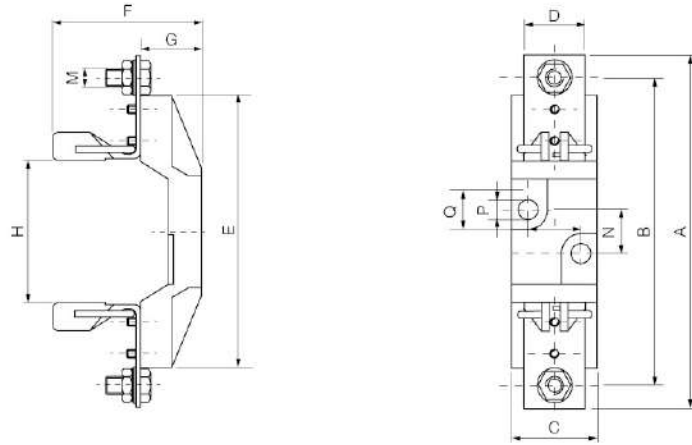
Model of product	Applicable fuse link size	Rated voltage	Rated current	Safety Approvals
SNH1B	SNH01	690	250	CCC
SNH2B	SNH02	1000	250	
SNH3B	SNH03	690	400	
		690	630	

Model of product	Applicable fuse link size	Rated voltage	Rated current	Safety Approvals
SNH1XLB	SNH1XL	1000	250	
SNH2XLB	SNH2XL	1000	400	
SNH3LB	SNH2XL/NH3L	1000	400	TUV
SNH3LB	SNH2XL/NH3L	1000	630	

### Dimensions(mm)

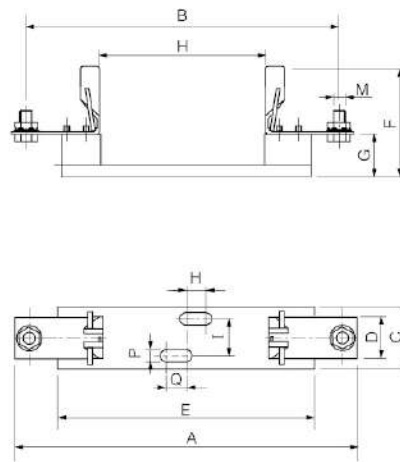


Dimensions(mm)



SNH1/2/3B

Size	A	B	C	D	E	F	G	H	I	M	N	P	Q
SNH1	200	175	60	35	155	85	35	80	30	M10	25	10.5	20.5
SNH2	225	200	60	35	155	90	35	80	30	M10	25	10.5	20.5
SNH3	240	210	60	35	155	100	35	80	30	M10	25	10.5	20.5



SNH1/2XLB,SNH3LB

Size	A	B	C	D	E	F	G	H	I	M	N	P	Q
SNH1XL	200	175	60	35	155	85	35	80	30	M10	25	10.5	20.5
SNH2XL	225	200	60	35	155	90	35	80	30	M10	25	10.5	20.5
SNH3XL	240	210	60	35	155	100	35	80	30	M10	25	10.5	20.5



## Application

This series of fuse is suitable for solar photovoltaic power generation system, rated voltage to 1500V, rated current to 50A, connected with photovoltaic panels and batteries, to charge variable flow system for short circuit breaking protection in photovoltaic station and photovoltaic power generation system. The rated breaking capacity is 20KA, products conform to IEC60269.6

## Normal Working Conditions

Ambient Temperature:  $-40^{\circ}\text{C} - +90^{\circ}\text{C}$

Equipment installation height: less than 2000m

(if you want use exceeding this height, pls tell us in advance, we can design according to your requirements)

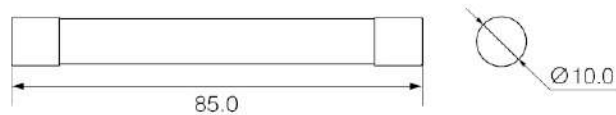
## Use Category

gPV means all range DC Fuse used for breaking protection in solar photovoltaic power generation system

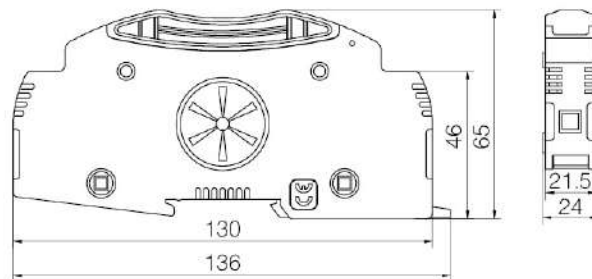
## Structure

Fuse Link is made of pure silver, welding low tin and encapsulated in the high-strength porcelain, the fuse tube filled with high pure quartz sand with chemically processed as a arc medium, fuse body is connected with contacting terminals by spot welding.

## Main Technical Specification



Model	Rated Voltage (V)	Rated Current (A)	SIZE( mm)
SRF-30	DC1500V	2-30	See Above Drawing



Model	Fuse Size	Rated Voltage (V)	Rated Current (A)	SIZE( mm)
SRD-30	10/14×85	DC1500V	2-50A	See Above Drawing

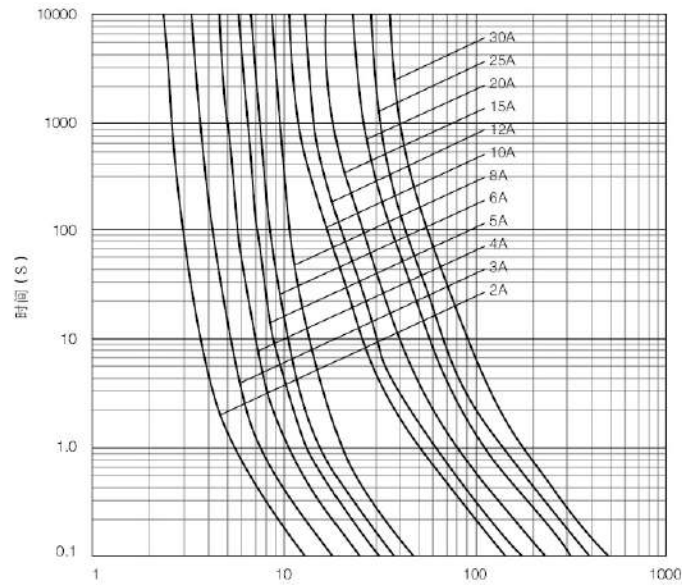


### Testing Method

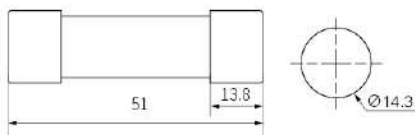
Appointed time and current

gPV Fuse current rated (A)	Appointed Timeh	Appointed Current	
		Inf	If
$I_n \leq 63$	1	1.13I <sub>n</sub>	1.45I <sub>n</sub>
$63 < I_n \leq 160$	2		
$160 < I_n \leq 400$	3		
$I_n > 400$	4		

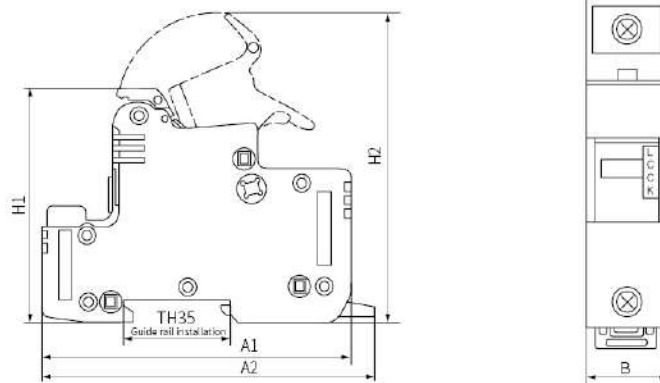
### Characteristic Curve



### Main Technical Specification



Model	Rated Voltage (V)	Rated Current (A)	SIZE(mm)
SRF-30	DC1500V	10A-32A	See Above Drawing



Model	Fuse Size	Rated Voltage (V)	Rated Current (A)	SIZE(mm)				
				A1	A2	B	H1	H2
SRD-32	14x51	DC1500V	10-32A	107	111	27	72	100

### Testing Method

Appointed time and current

gPV Fuse current rated (A)	Appointed Time <sub>h</sub>	Appointed Current	
		Inf	If
$I_n \leq 63$	1	1.13I <sub>n</sub>	1.45I <sub>n</sub>
$63 < I_n \leq 160$	2		
$160 < I_n \leq 400$	3		
$I_n > 400$	4		

### Characteristic Curve

