

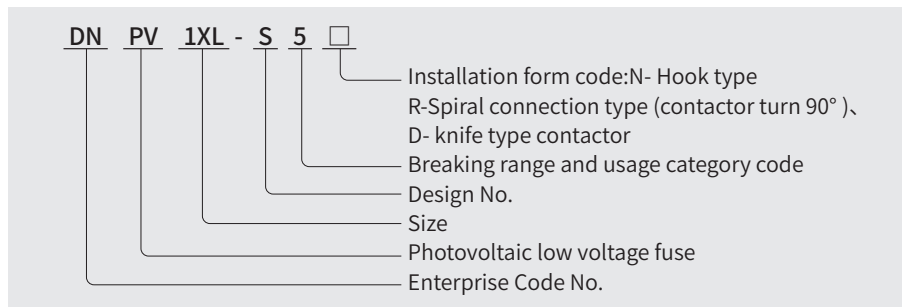
Fuse for solar photovoltaic system protection



Product description

This series of fuses is suitable for solar photovoltaic systems. It can safely protect photovoltaic strings, photovoltaic arrays, photovoltaic inverters and other equipment and provide first-class protection performance. Suitable for commercial and residential use Customizable for specific applications.

Model and meaning



Normal working conditions

1. Ambient air temperature: The ambient air temperature T_a does not exceed 40°C, the average value measured in 24 hours does not exceed 35°C, and the average value measured within one year is lower than this value. The minimum ambient air temperature is -5°C.
2. Altitude: The altitude of the installation site does not exceed 2000m.
3. Atmospheric conditions: The air is clean, and its relative humidity does not exceed 50% when the maximum temperature is 40°C. It can have higher relative humidity at lower temperatures, for example: at 20°C, the relative humidity can reach 90 % Under these conditions, moderate condensation may occasionally occur due to temperature changes.

Ordering Instructions

Users should provide the following information when ordering:

DNPV1XL-S5R Solar photovoltaic system protection fuse to describe the specification model, rated current, rated voltage and quantity.

For example:

DNPV1XL-S5R-50A/1500V DC 10 PCS

DNPV1XL-S5D

Fuse for solar photovoltaic system protection

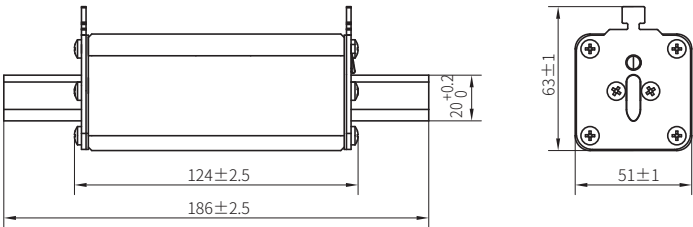


Rated voltage	1500V DC
Rated current	50~250A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

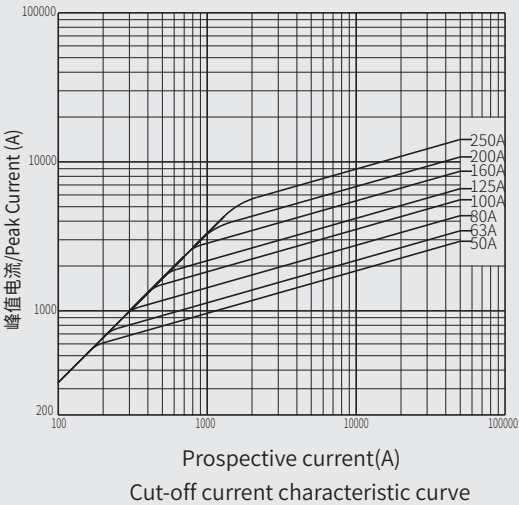
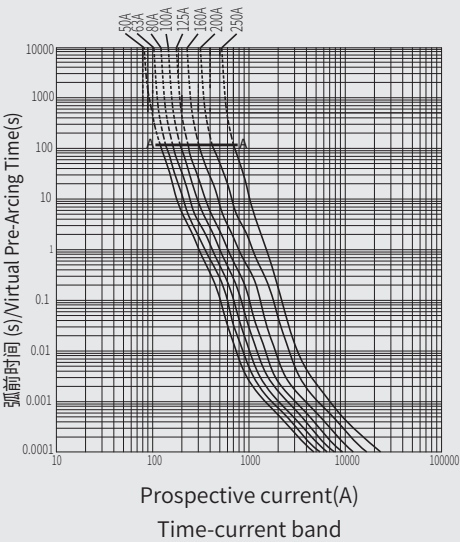
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I²t (A²S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNPV1XL-S5D-50A/1500V DC	1XL	1500	50	260	490	4	8	14	914±3%	Plug-in
DNPV1XL-S5D-63A/1500V DC			63	510	1050	5	11	21		
DNPV1XL-S5D-80A/1500V DC			80	1170	2880	7	14	28		
DNPV1XL-S5D-100A/1500V DC			100	2180	5430	8	18	33		
DNPV1XL-S5D-125A/1500V DC			125	3690	9020	9	21	40		
DNPV1XL-S5D-160A/1500V DC			160	6900	16900	11	24	47		
DNPV1XL-S5D-200A/1500V DC			200	12900	31900	13	29	54		
DNPV1XL-S5D-250A/1500V DC			250	25600	62500	15	31	60		

Overall dimensions (mm)



Characteristic curve



DNPV1XL-S5N

Fuse for solar photovoltaic system protection

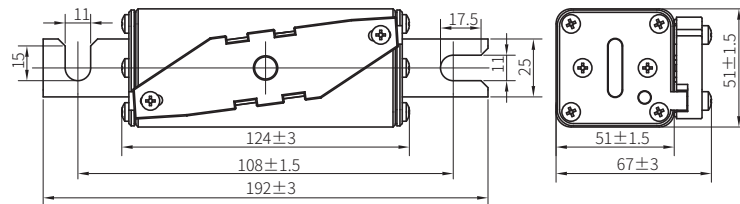


Rated voltage	1500V DC
Rated current	50~250A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

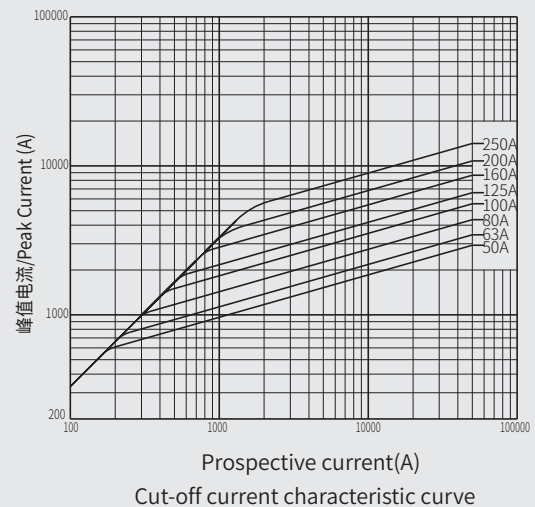
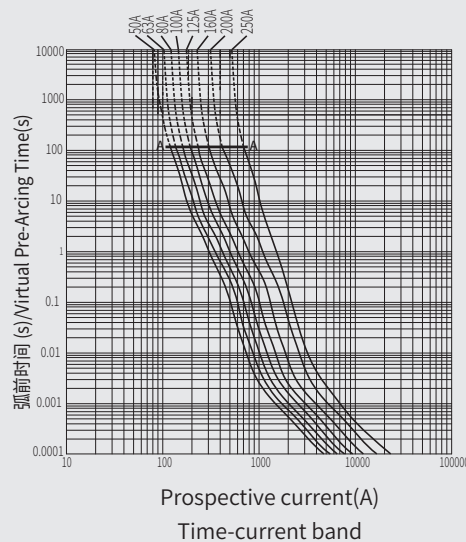
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I ² t (A ² S)		0.8I _n Power dissipation(W)	1.0I _n Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV1XL-S5N-50A/1500V DC	1XL	1500	50	0.78	3	16	14	914±3%	M10 21±1N.m
DNPV1XL-S5N-63A/1500V DC			63	0.94	3.7	11	21		
DNPV1XL-S5N-80A/1500V DC			80	1.3	5.2	14	28		
DNPV1XL-S5N-100A/1500V DC			100	2.4	9.2	18	33		
DNPV1XL-S5N-125A/1500V DC			125	4.1	15.7	21	40		
DNPV1XL-S5N-160A/1500V DC			160	7.6	29.5	24	47		
DNPV1XL-S5N-200A/1500V DC			200	14.2	55.2	29	54		
DNPV1XL-S5N-250A/1500V DC			250	28.3	108.4	31	60		

Overall dimensions (mm)



Characteristic curve



DNPV1XL-S5R

Fuse for solar photovoltaic system protection

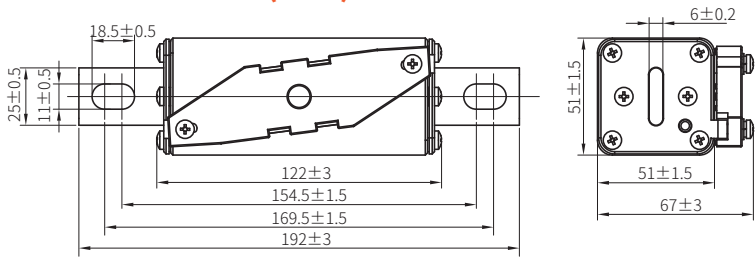


Rated voltage	1500V DC
Rated current	50~250A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

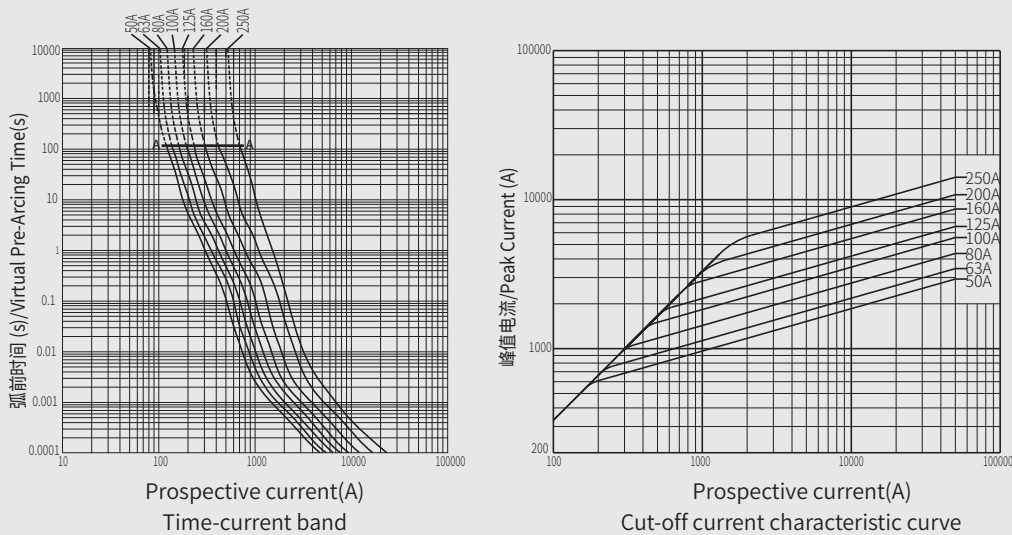
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I²t (A²S)		0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV1XL-S5N-50A/1500V DC	1XL	1500	50	0.78	3	16	14	914±3%	M10 21±1N.m
DNPV1XL-S5N-63A/1500V DC			63	0.94	3.7	11	21		
DNPV1XL-S5N-80A/1500V DC			80	1.3	5.2	14	28		
DNPV1XL-S5N-100A/1500V DC			100	2.4	9.2	18	33		
DNPV1XL-S5N-125A/1500V DC			125	4.1	15.7	21	40		
DNPV1XL-S5N-160A/1500V DC			160	7.6	29.5	24	47		
DNPV1XL-S5N-200A/1500V DC			200	14.2	55.2	29	54		
DNPV1XL-S5N-250A/1500V DC			250	28.3	108.4	31	60		

Overall dimensions (mm)



Characteristic curve



DNPV2XL-S5D

Fuse for solar photovoltaic system protection

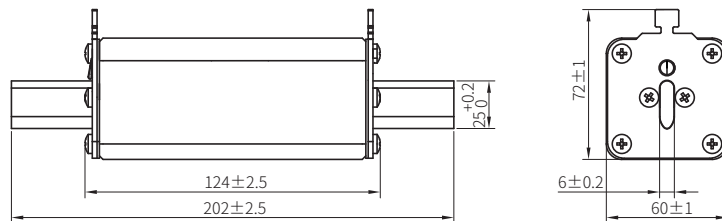


Rated voltage	1500V DC
Rated current	125~400A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

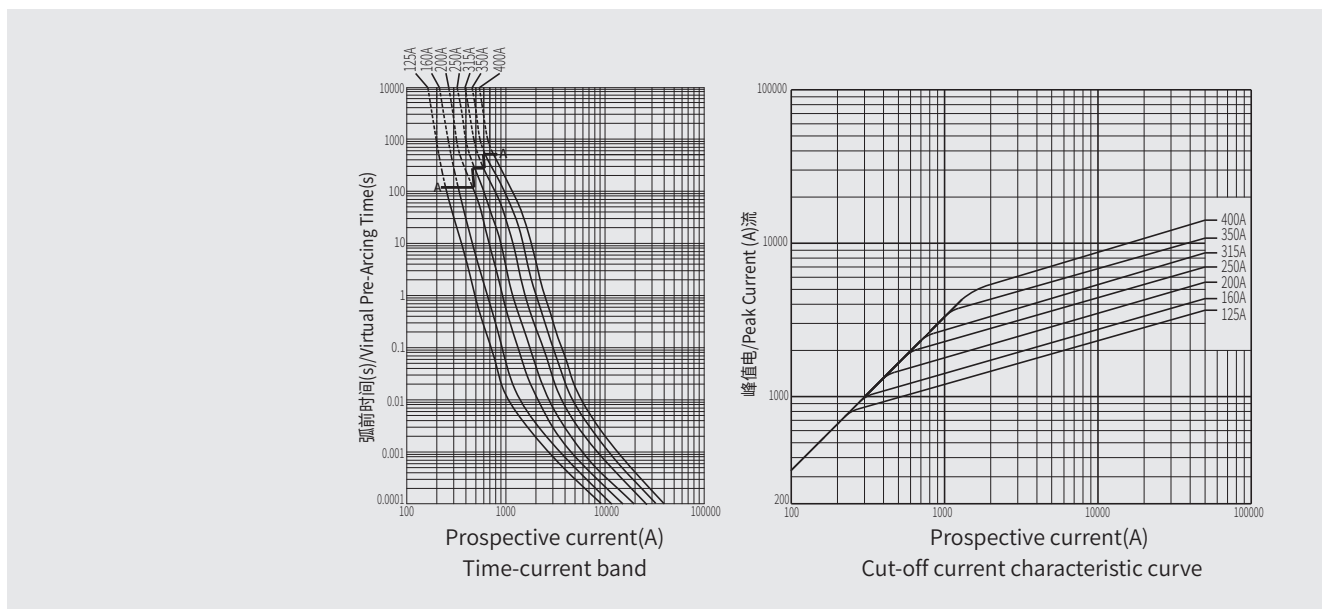
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I ² t (A ² S)		0.5I _n Power dissipation(W)	0.8I _n Power dissipation(W)	1.0I _n Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNPV2XL-S5D-125A/1500V DC	2XL	1500	125	3.8	14	4	8	14	914±3%	M10 21±1N.m
DNPV2XL-S5D-160A/1500V DC			160	7.6	27	5	11	21		
DNPV2XL-S5D-200A/1500V DC			200	15.7	56.1	7	14	28		
DNPV2XL-S5D-250A/1500V DC			250	30.3	108	8	18	33		
DNPV2XL-S5D-315A/1500V DC			315	56.8	201.8	9	21	40		
DNPV2XL-S5D-350A/1500V DC			350	7.6	29.5	11	24	47		
DNPV2XL-S5D-400A/1500V DC			400	14.2	55.2	13	29	54		

Overall dimensions (mm)



Characteristic curve



DNPV2XL-S5N

Fuse for solar photovoltaic system protection

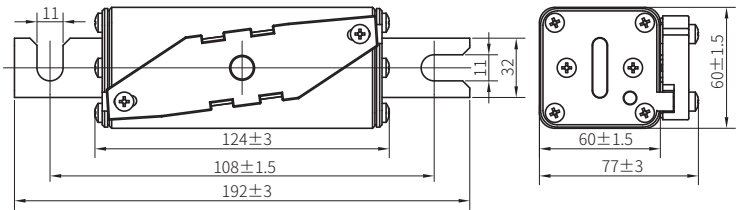


Rated voltage	1500V DC
Rated current	50~250A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

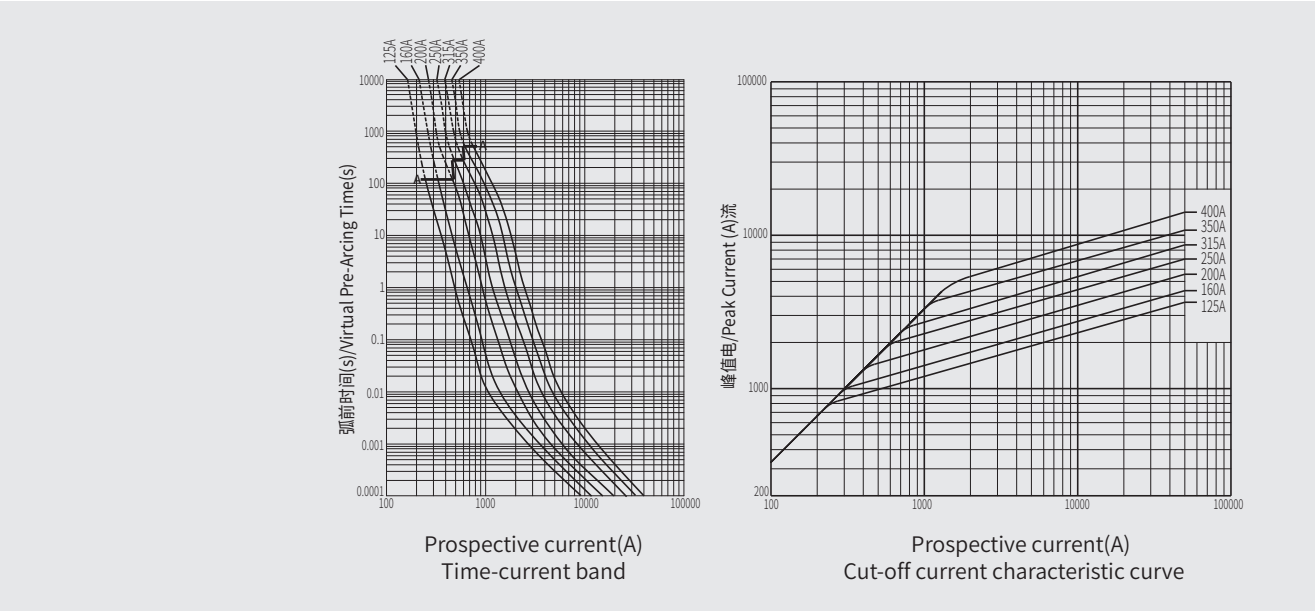
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I²t (A²S)		0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV2XL-S5N-125A/1500V DC	2XL	1500	125	2480	16900	8	14	1300±3%	M10 21±1N.m
DNPV2XL-S5N-160A/1500V DC			160	4000	21000	11	29		
DNPV2XL-S5N-200A/1500V DC			200	6200	33000	14	53		
DNPV2XL-S5N-250A/1500V DC			250	16200	85000	18	56		
DNPV2XL-S5N-315A/1500V DC			315	25400	133000	21	73.6		
DNPV2XL-S5N-350A/1500V DC			350	36600	192000	24	75.7		
DNPV2XL-S5N-400A/1500V DC			400	50000	260000	29	88.4		

Overall dimensions (mm)



Characteristic curve



DNPV2XL-S5R

Fuse for solar photovoltaic system protection

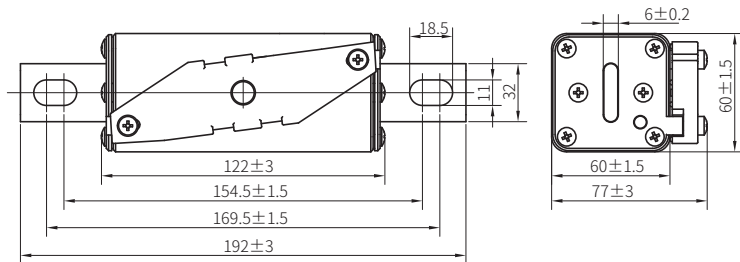


Rated voltage	1500V DC
Rated current	125~400A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

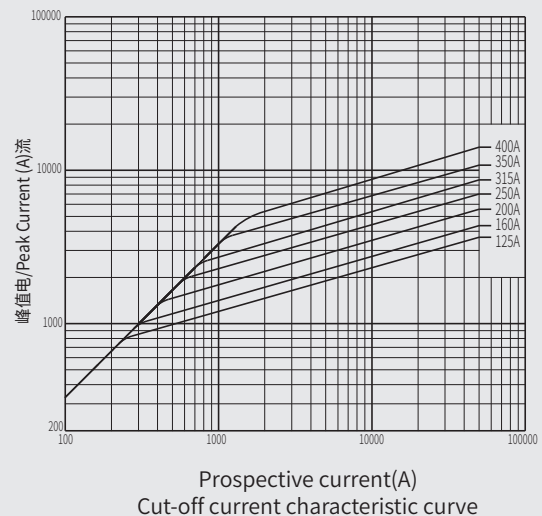
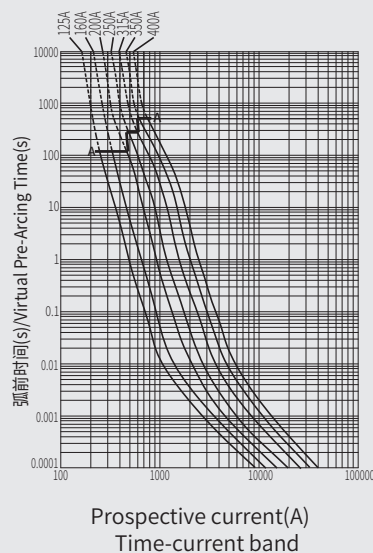
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I ² t (A ² S)		0.5I _n Power dissipation(W)	0.8I _n Power dissipation(W)	1.0I _n Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNPV2XL-S5R-125A/1500V DC	2XL	1500	125	3.8	14	4	8	14	914±3%	M10 21±1N.m
DNPV2XL-S5R-160A/1500V DC			160	7.6	27	5	11	21		
DNPV2XL-S5R-200A/1500V DC			200	15.7	56.1	7	14	28		
DNPV2XL-S5R-250A/1500V DC			250	30.3	108	8	18	33		
DNPV2XL-S5R-315A/1500V DC			315	56.8	201.8	9	21	40		
DNPV2XL-S5R-350A/1500V DC			350	7.6	29.5	11	24	47		
DNPV2XL-S5R-400A/1500V DC			400	14.2	55.2	13	29	54		

Overall dimensions (mm)



Characteristic curve



DNPV3L-S5D

Fuse for solar photovoltaic system protection

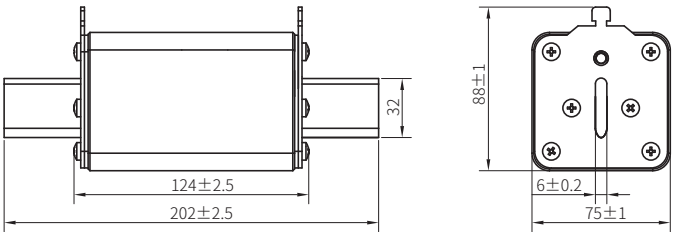


Rated voltage	1500V DC
Rated current	250~630A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

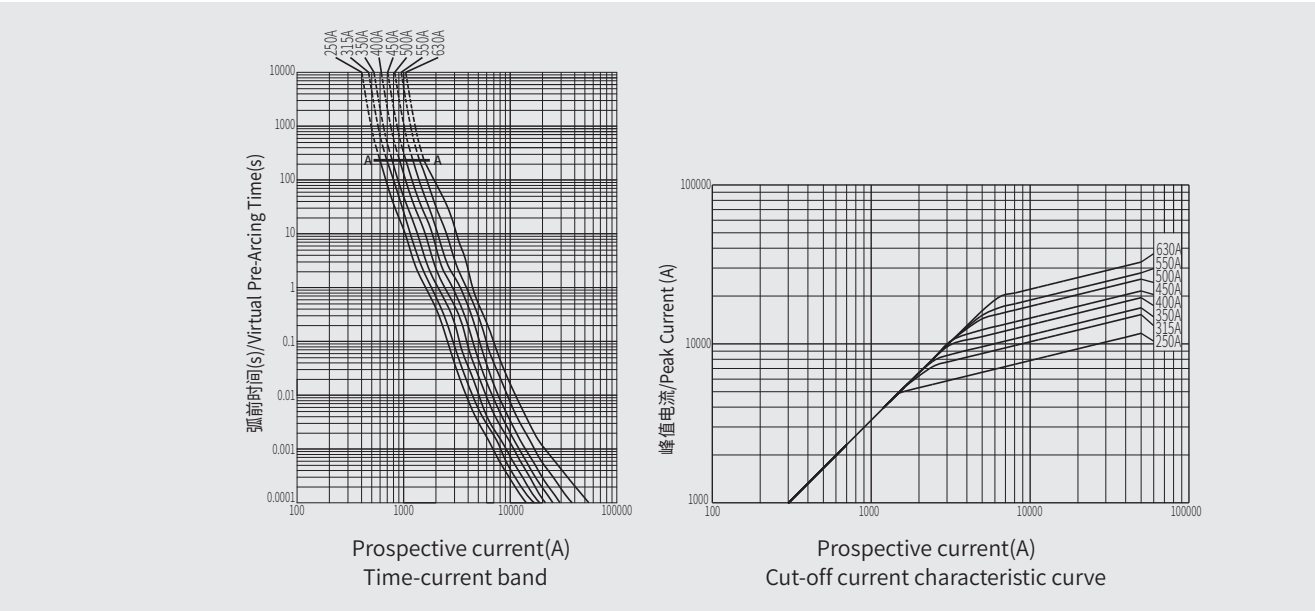
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I²t (A²S)		0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV3L-S5D-250A/1500V DC	3L	1500	250	2480	16900	33	52	1300±3%	M10 21±1N.m
DNPV3L-S5D-315A/1500V DC			315	4000	21000	36	58		
DNPV3L-S5D-350A/1500V DC			350	6200	33000	40	66		
DNPV3L-S5D-400A/1500V DC			400	16200	85000	46	76		
DNPV3L-S5D-450A/1500V DC			450	25400	133000	49	82		
DNPV3L-S5D-500A/1500V DC			500	36600	192000	58	97		
DNPV3L-S5D-550A/1500V DC			550	50000	260000	64	107		
DNPV3L-S5D-630A/1500V DC			630	50000	260000	89	148		

Overall dimensions (mm)



Characteristic curve



DNPV3L-S5N

Fuse for solar photovoltaic system protection

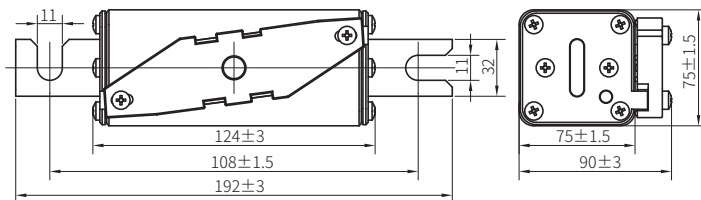


Rated voltage	1500V DC
Rated current	250~630A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

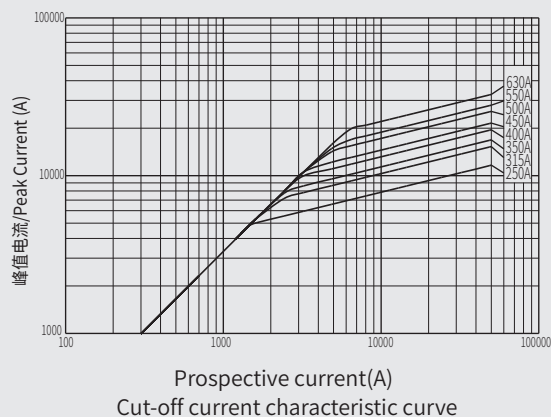
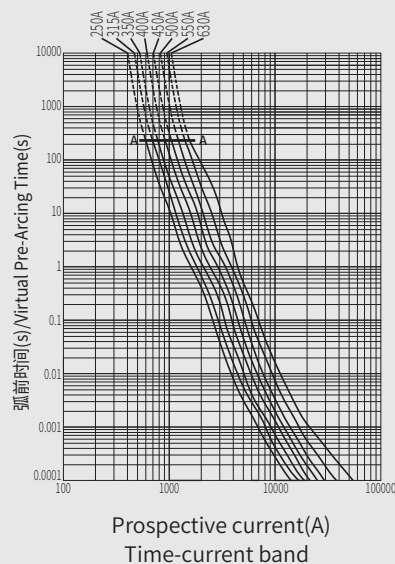
Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I ² t (A ² S)		0.8I _n Power dissipation(W)	1.0I _n Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV3L-S5N-250A/1500V DC	3L	1500	250	2480	16900	33	52	1300±3%	M10 21±1N.m
DNPV3L-S5N-315A/1500V DC			315	4000	21000	36	58		
DNPV3L-S5N-350A/1500V DC			350	6200	33000	40	66		
DNPV3L-S5N-400A/1500V DC			400	16200	85000	46	76		
DNPV3L-S5N-450A/1500V DC			450	25400	133000	49	82		
DNPV3L-S5N-500A/1500V DC			500	36600	192000	58	97		
DNPV3L-S5N-550A/1500V DC			550	50000	260000	64	107		
DNPV3L-S5N-630A/1500V DC			630	50000	260000	89	148		

Overall dimensions (mm)



Characteristic curve



DNPV3L-S5R

Fuse for solar photovoltaic system protection

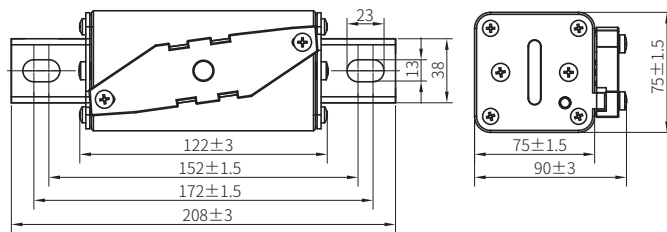


Rated voltage	1500V DC
Rated current	250~630A
Utilization category	gPV
Breaking capacity	50kA
Time constant	1~3ms
Reference standards	GB/T 13539.6 IEC 60269-6

Product parameter

Model No.	Size	Rated Voltage (V)	Rated Current (A)	I²t (A²S)		0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing				
DNPV3L-S5R-250A/1500V DC	3L	1500	250	2480	16900	33	52	1300±3%	M10 21±1N.m
DNPV3L-S5R-315A/1500V DC			315	4000	21000	36	58		
DNPV3L-S5R-350A/1500V DC			350	6200	33000	40	66		
DNPV3L-S5R-400A/1500V DC			400	16200	85000	46	76		
DNPV3L-S5R-450A/1500V DC			450	25400	133000	49	82		
DNPV3L-S5R-500A/1500V DC			500	36600	192000	58	97		
DNPV3L-S5R-550A/1500V DC			550	50000	260000	64	107		
DNPV3L-S5R-630A/1500V DC			630	50000	260000	89	148		

Overall dimensions (mm)



Characteristic curve

