DC1500V FUSE AND FUSE BASE SPECIFICATION

1. Application

This series of fuse is suitable for solar photovoltaic power generation system,rated voltage to 1500V,rated current to 630A,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 50kA,products confirms to IEC60269.6

2. Working Conditions

Ambient Temperature:-40°C- + 90°C[1]

Altitude:less than 2000m[2]

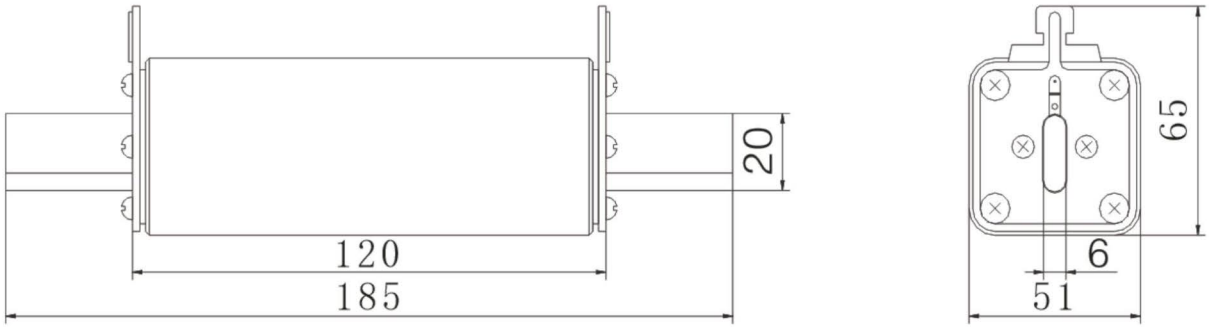
3. Use Category

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

[1] Normal working condition is -5°C-40°C,if the ambient temperature is above 40°C,please select fuse with temperature derating curve.

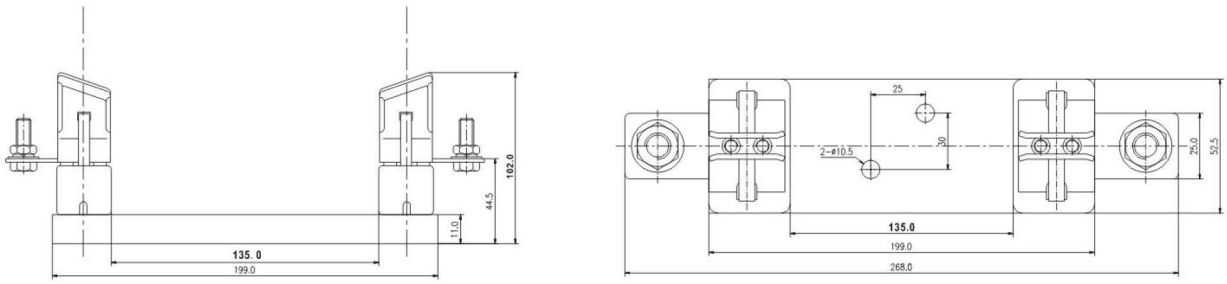
[2] In case of high altitude please consult Chifeng's application engineering.

4. **Main Technical Specification**

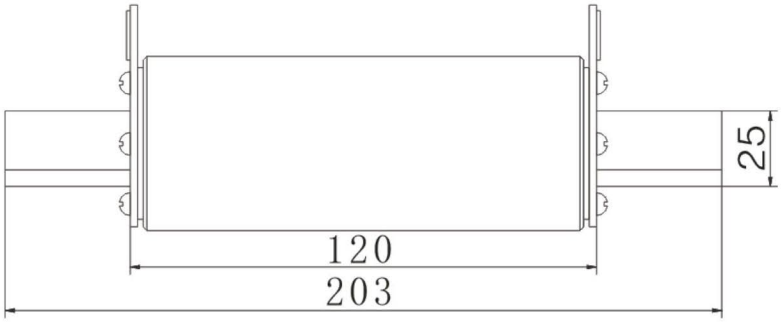


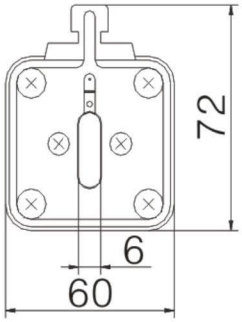
CFPV-H1XL

Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H1XL	DC 1500V	35A-200A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	50kA	1-3ms	



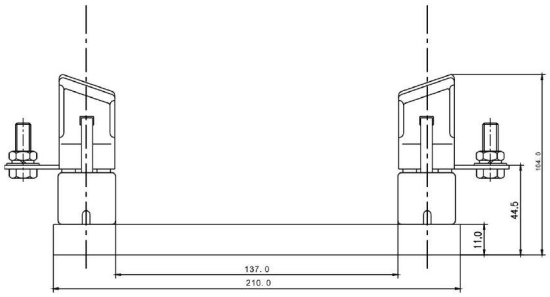
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H1XLB	DC 1500V	250A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	

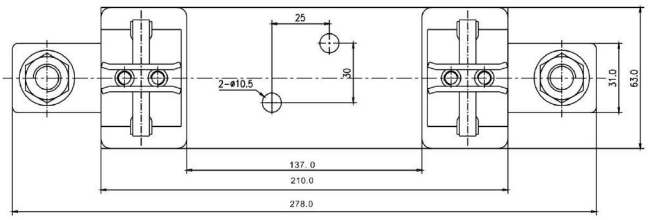




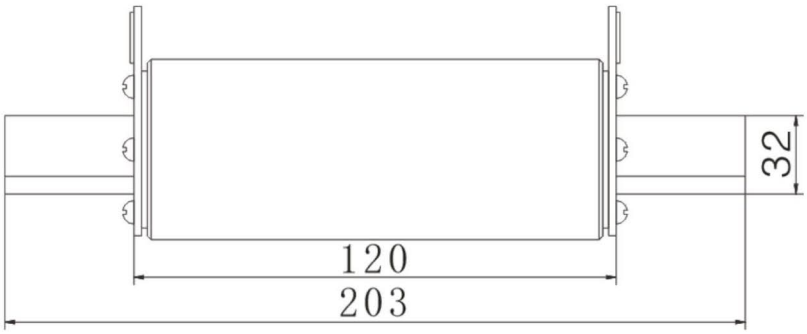
CFPV-H2XL

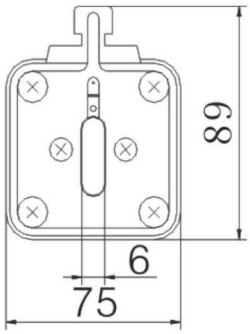
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H2XL	DC 1500V	250A-400A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	50kA	1-3ms	





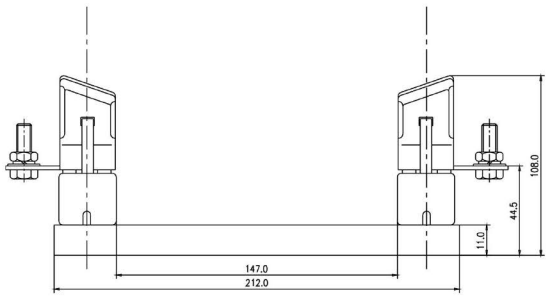
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H2XLB	DC 1500V	450A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	

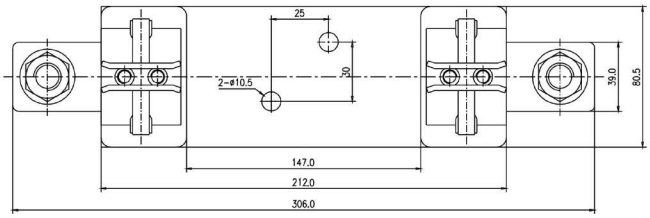




CFPV-H3L

Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H3L	DC 1500V	450A-630A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	50kA	1-3ms	





Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H3LB	DC 1500V	630A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	

Item Name	Voltage	Current	Test Time	Power Dissipation	Power Dissipation	Breaking Capacity
	(Vdc)	(A)	(h)	@0.7In (w)	@1.0In (w)	(kA)
CFPV-H1XL	1500	63	1	8	18	50
	1500	80	2	10	22	50
	1500	100	2	11	24	50
	1500	125	2	12	27	50
	1500	160	2	15	33	50
	1500	200	3	16	37	50
CFPV-H2XL	1500	250	3	23	53	50
	1500	315	3	26	60	50
	1500	350	3	27	62	50
	1500	355	3	28	65	50
	1500	400	3	30	70	50
CFPV-H3L	1500	450	4	31	72	50
	1500	500	4	32	73	50
	1500	630	4	45	100	50

5. Testing Method:

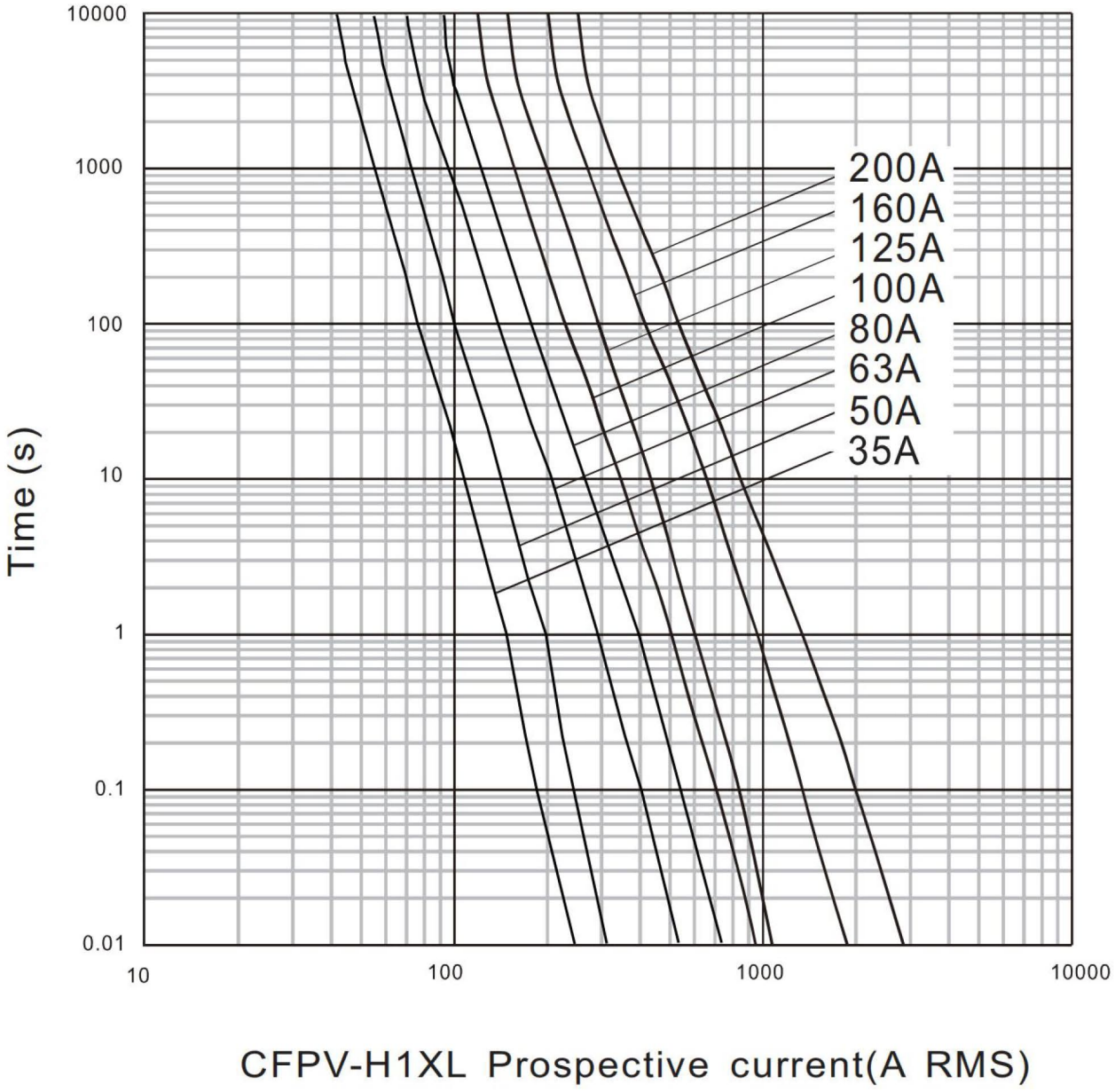
Appointed time and current

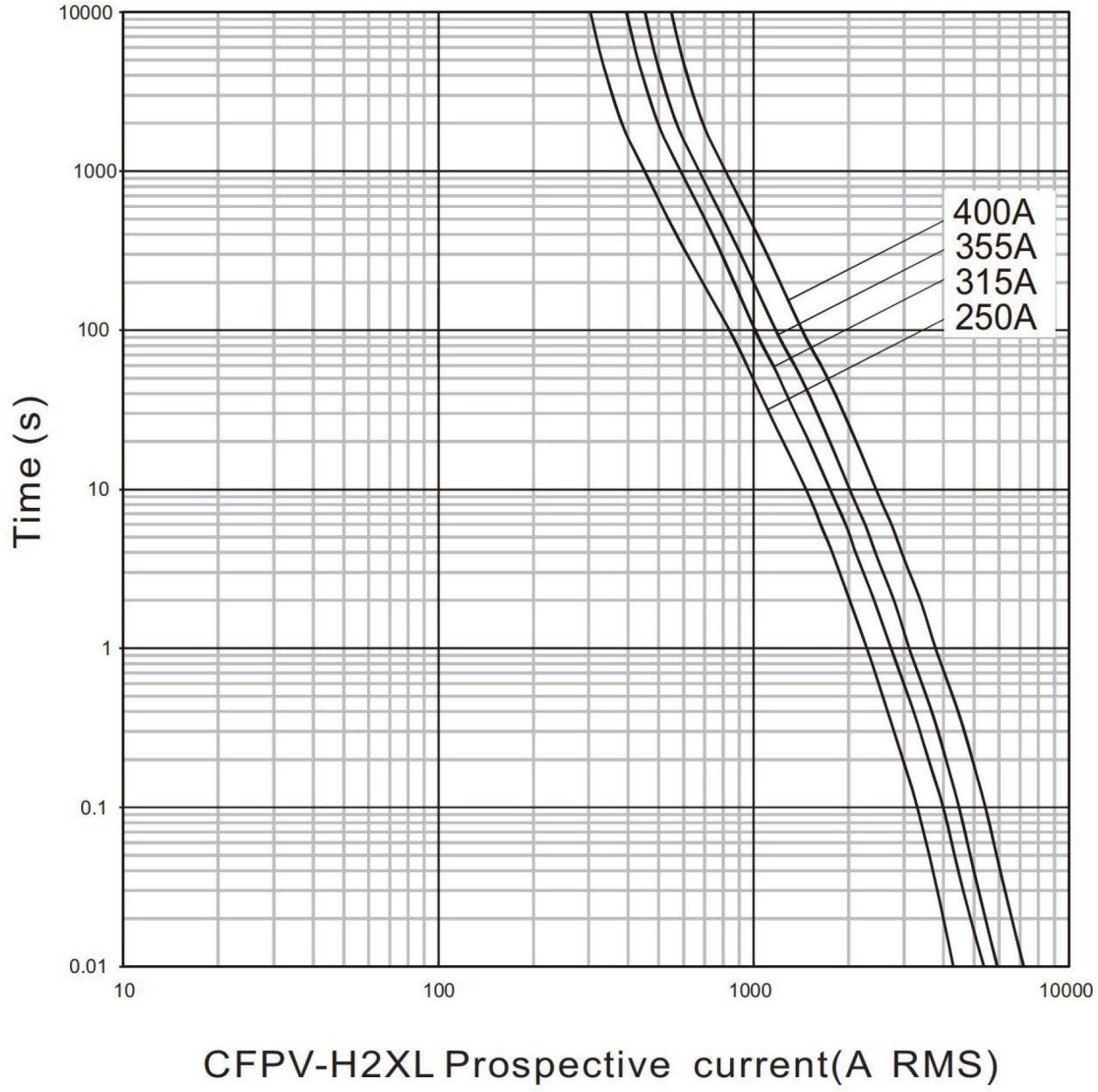
gPV The appointed time and current of Fuse

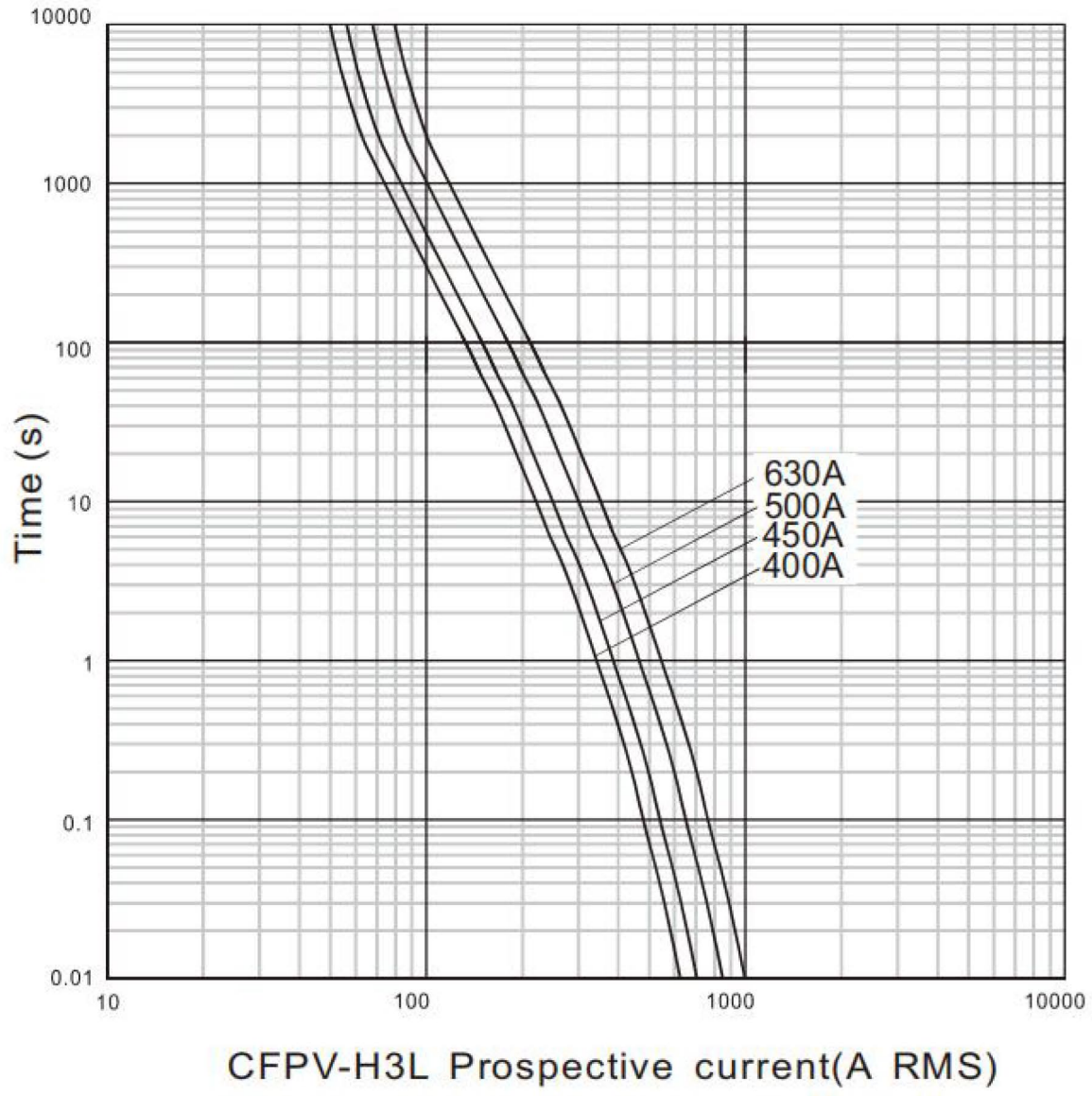
gPV Fuse current rated (A)	Appointed Time h	Appointed Current	
		Inf	If
$I_n \leq 63$	1	1.13In	1.45In
$63 < I_n \leq 160$	2		
$160 < I_n \leq 400$	3		
$I_n > 400$	4		

6. Characteristic Curve

6.1 Time-Current Curve




10000
1000
100
10
1
0.1
0.01
Time (s)
400A
355A
315A
250A
10
100
1000
10000
CFPV-H2XL Prospective current(A RMS)


10000
1000
100
10
1
0.1
0.01
Time (s)
630A
500A
450A
400A
10
100
1000
10000
CFPV-H3L Prospective current(A RMS)

6.2 Temperature Derating Curve

