CFPV-H DC 1000V FUSE AND FUSE BASE SPECIFICATION

1. Application

This series of fuse is suitable for solar photovoltaic power generation system,rated voltage to 1000V,rated current to 400A,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 30KA,products confirms to IEC60269.6

2. Working Conditions

Ambient Temperature:-40°C- + 90°C[1]

Altitude:less than 2000m[2]

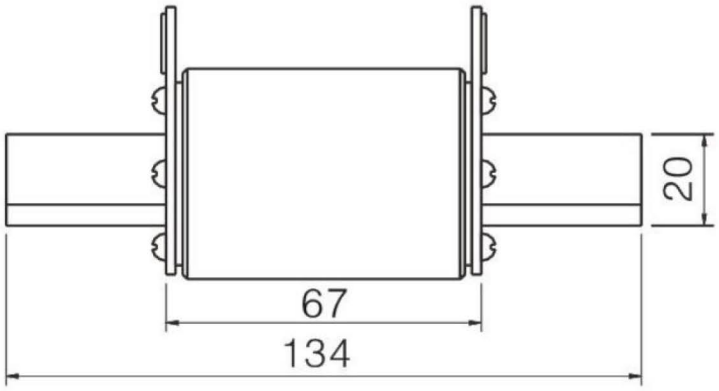
3. Use Category

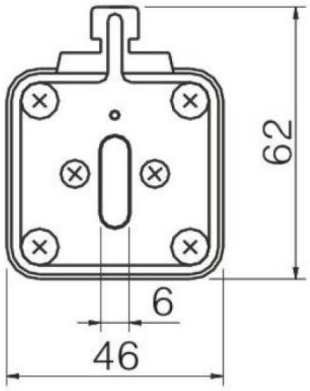
gPV means all range DC Fuse used for breaking protection in solar photovoltaic power generation system.

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

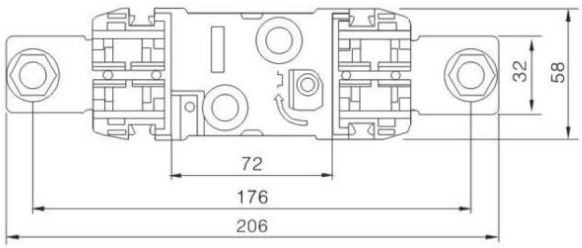
[2] In case of high altitude please consult Chifeng's application engineering.

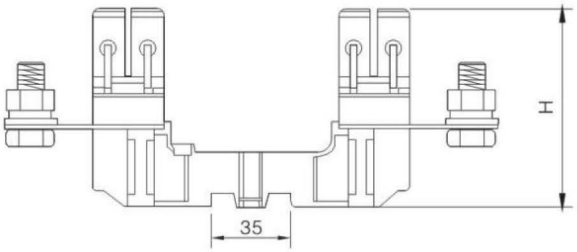
4. Main Technical Specification



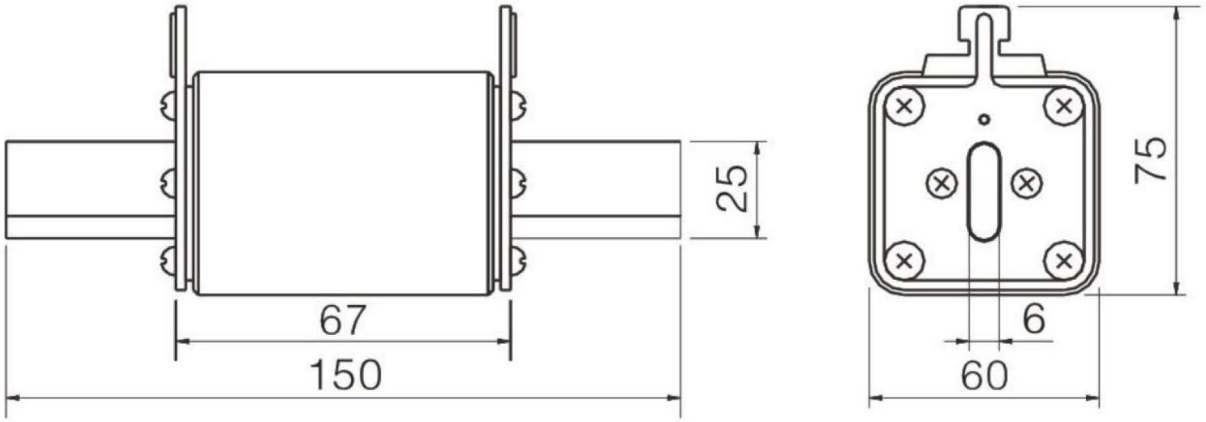


Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H1	DC 1000V	63A-200A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	30kA	1-3ms	

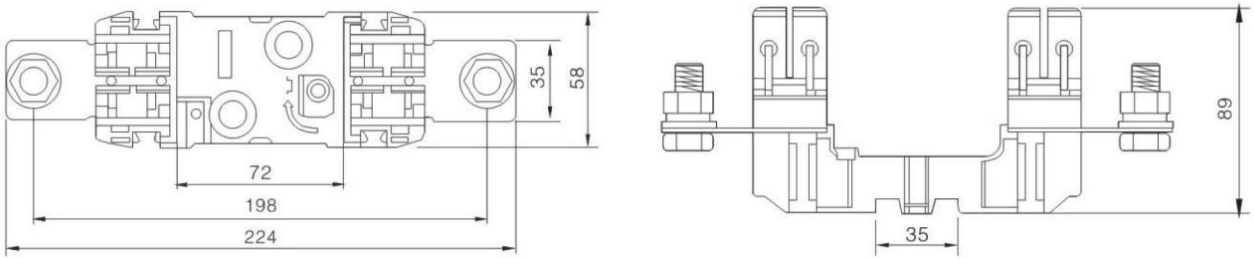




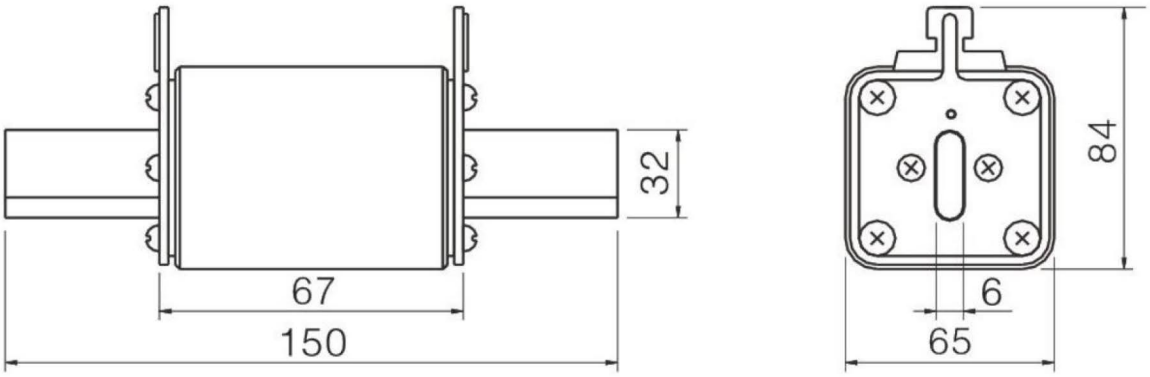
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H1B	DC 1000V	200A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	



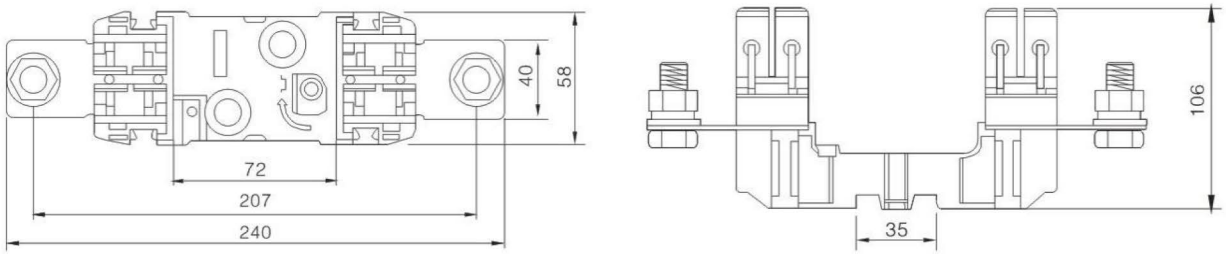
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H2	DC 1000V	160A-250A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	30kA	1-3ms	



Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H2B	DC 1000V	250A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	



Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H3	DC 1000V	250A-400A	gPV	See Above Drawing
	Standard	Breaking Capacity	Time Constant	
	IEC60269	30kA	1-3ms	



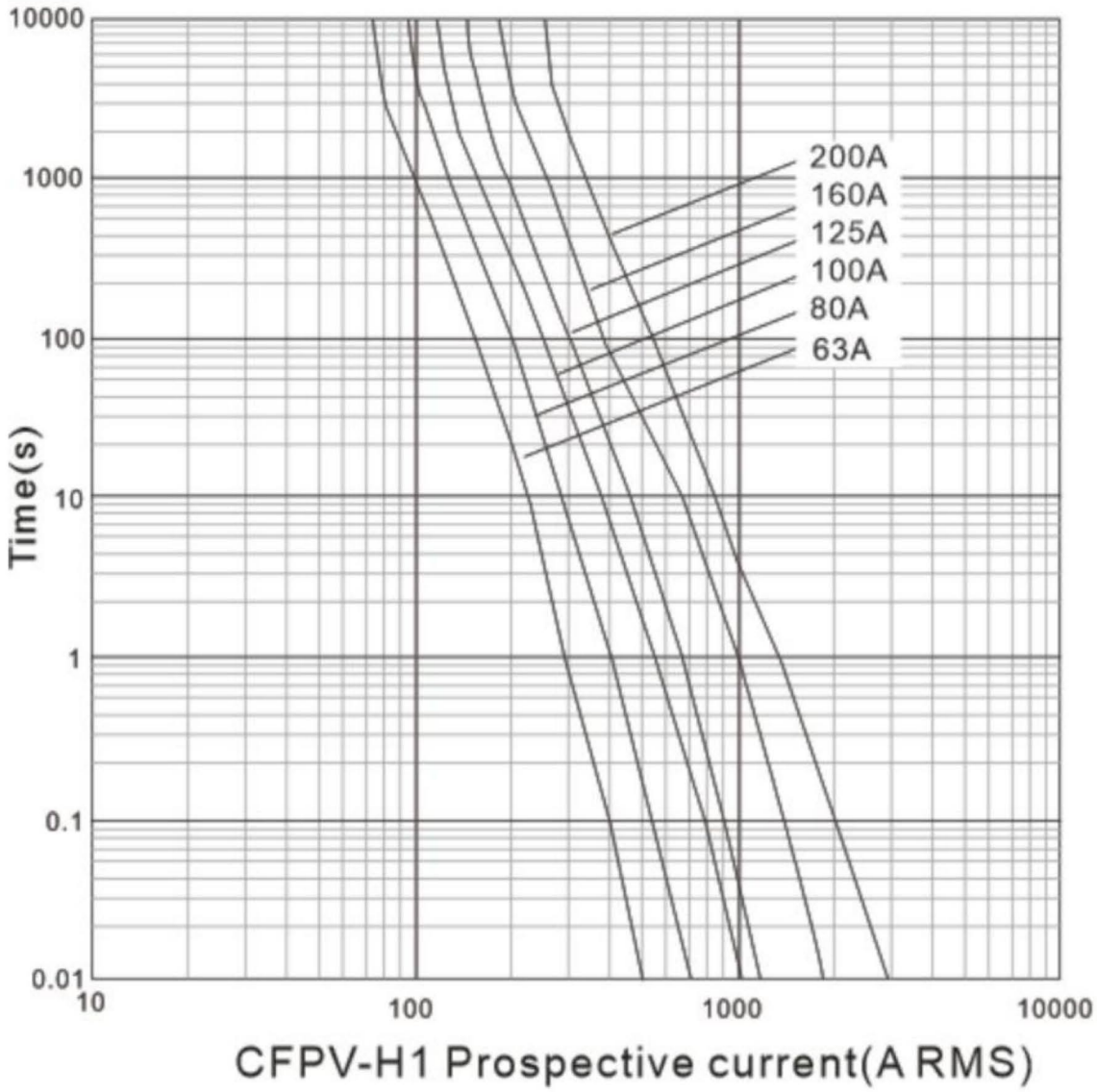
Model	Rated Voltage	Rated Current	Class of Operation	SIZE（mm）
CFPV-H3B	DC 1000V	400A	gPV	See Above Drawing
	Standard	Screw Size	Torque	
	IEC60269	M10	32Nm	

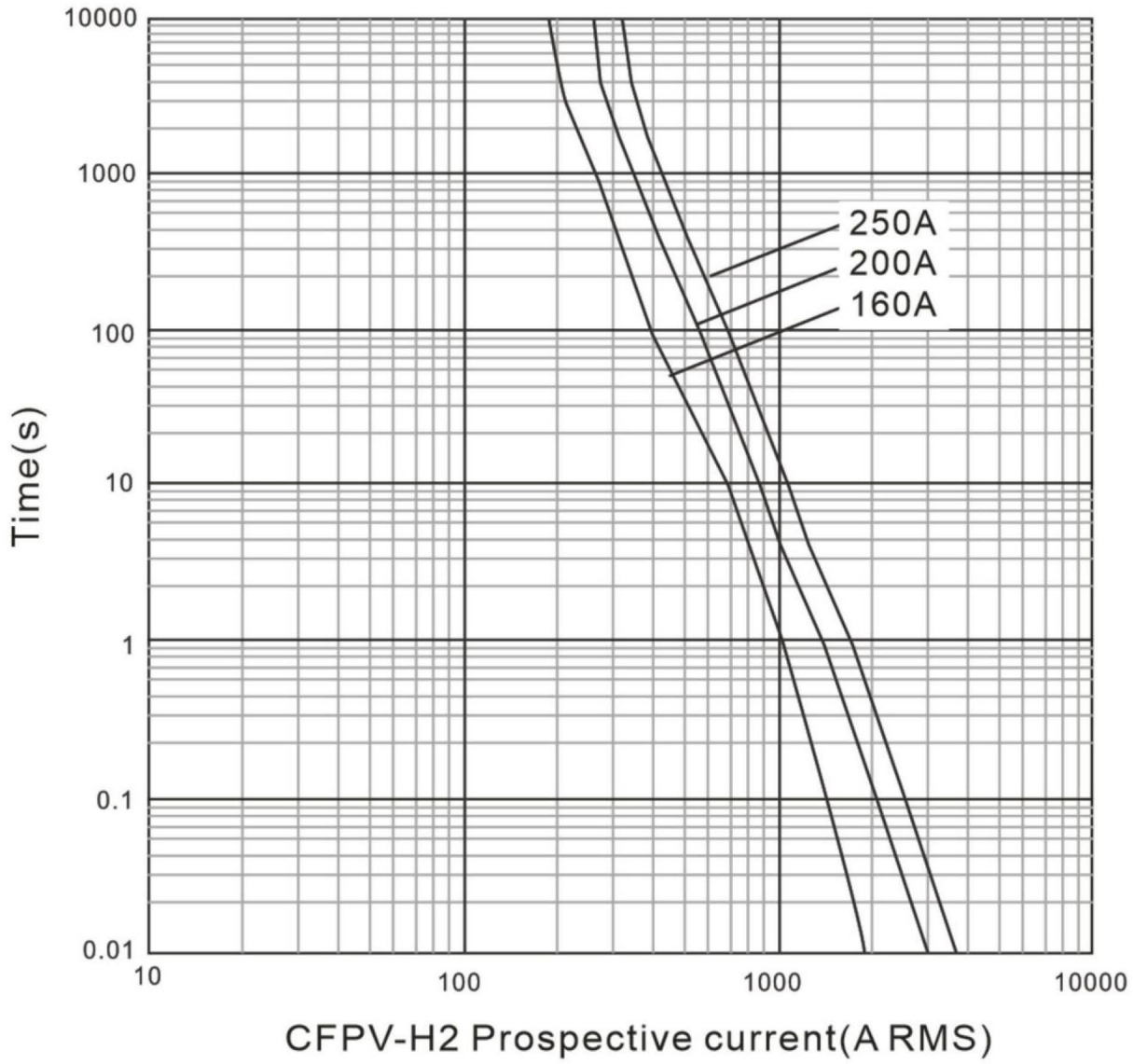
5. Testing Method:

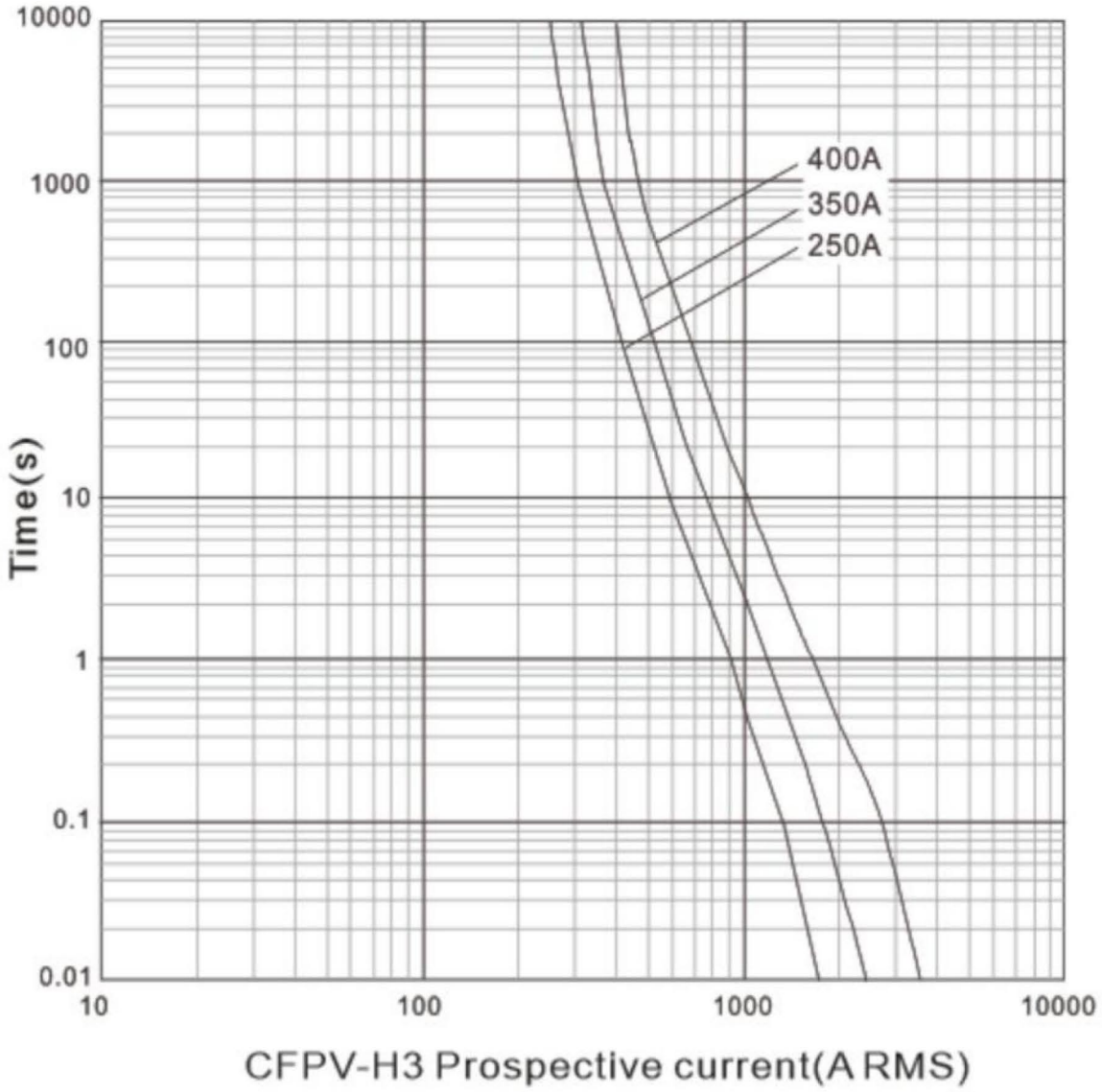
gPV The appointed time and current of Fuse

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




10000
1000
100
10
1
0.1
0.01
Time(s)
250A
200A
160A
10
100
1000
10000
CFPV-H2 Prospective current(A RMS)


10000
1000
100
10
1
0.1
0.01
Time(s)
400A
350A
250A
10
100
1000
10000
CFPV-H3 Prospective current(A RMS)