NSPV
NewSun PV Technology Co.,Ltd

1500VDC光伏专用大功率过电流保护直流熔断器含底座
1500VDC Hi Power Solar Fuse With Base

用途:
Application:

本系列熔断器适用于额定直流电压至1500V、额定电流至500A的线路中,与光伏板和蓄电池串接并联,对充电变流系统做短路分断保护;同时对光伏电站,汇流逆变整流系统与短路故障分断保护;以及做光伏发电系统浪涌电流和短路故障过电压快速分断保护,额定分断能力为50KA,产品符合国际电工委标准IEC60269的规定.

This series of fuse is suitable for solar photovoltaic power generation system,rated voltage to 1500V,rated current to 500A,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

工作条件:
Working Conditions:

周围空气温度上限不超过85℃;周围空气温度下限不低于－40℃;安装地点的海拔不超过2000m(如若要超过此2000m,需要注明要求,本公司可以按照客户要求进行设计开发).

Ambient Temperature:-40℃- + 85℃,Equipment installation height:less than 2000m(if you want use exceedng this height,pls tell us in advance,we can design according to your requirements).

使用类别:
Use Category:

"gPV"表示用于太阳能光伏系统过电流保护用全范围分断能力的直流熔断器.

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

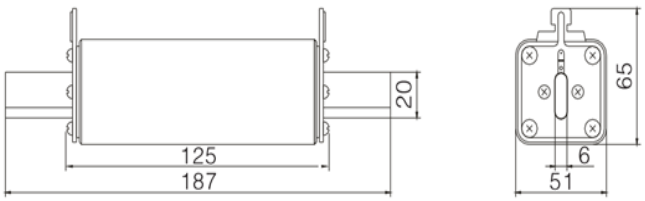
结构特点:
Structure:

由纯银片制成的变截面熔体封装于由高强度瓷制成的熔管内,熔管中充满经化学处理过的高纯度石英砂和特殊处理化学物质作为灭弧介质,先进的工艺保证了本产品,功耗小, 特性稳定等特点.

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.

技术参数:
Technical Specification:

Type_1 Fuse



型号 Model	额定电压 Rated Voltage	额定电流 Rated Current	使用类别 Class of Operation	尺寸(mm) SIZE（mm）
NSPV-NH1XL	DC 1500V	35A-200A	gPV	见上图 See Above Drawing
	参考标准 Standard	分断能力 Breaking Capacity	时间常数 Time Constant	
	IEC60269	50kA	1-3ms	

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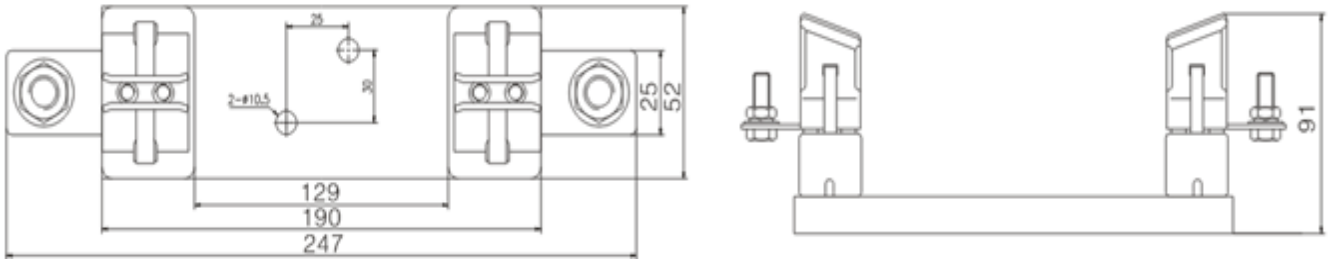
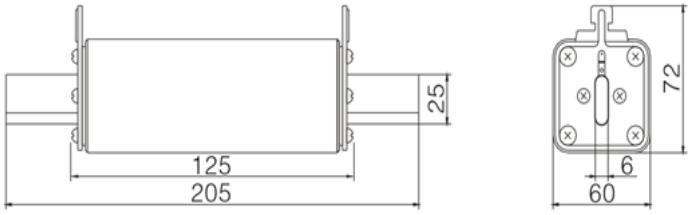
Type_1 Base



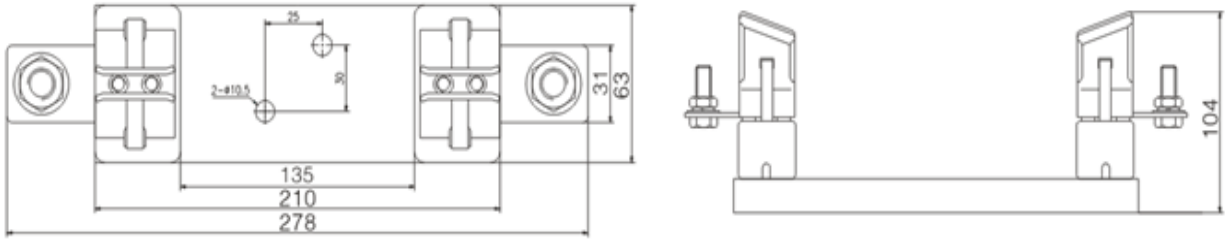
Model 型号	Rated Voltage 额定电压	Rated Current 额定电流	Class of Operation 使用类别	SIZE(mm) 尺寸(mm)
NSPV-NH1XLB	DC 1500V	250A	gPV	见上图 See Above Drawing
	Standard 参考标准	**Screw Size 螺栓型号**	**Torque 扭紧力矩**	
	IEC60269	M10	32Nm	

Type_2 Fuse



型号 Model	额定电压 Rated Voltage	额定电流 Rated Current	使用类别 Class of Operation	尺寸(mm) SIZE（mm）
NSPV-NH2XL	DC 1500V	125-400A	gPV	见上图 See Above Drawing
	参考标准 Standard	**分断能力 Breaking Capacity**	**时间常数 Time Constant**	
	IEC60269	50kA	1-3ms	

Type_2 Base



Model 型号	Rated Voltage 额定电压	Rated Current 额定电流	Class of Operation 使用类别	SIZE(mm) 尺寸(mm)
NSPV-NH2XLB	DC 1500V	400A	gPV	见上图 See Above Drawing
	Standard 参考标准	**Screw Size 螺栓型号**	**Torque 扭紧力矩**	
	IEC60269	M10	32Nm	

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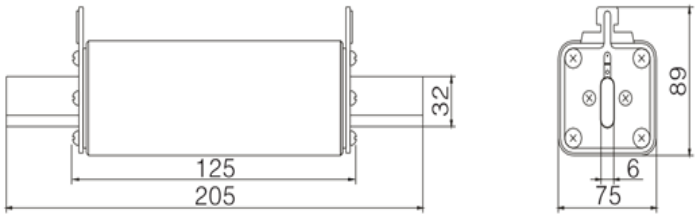
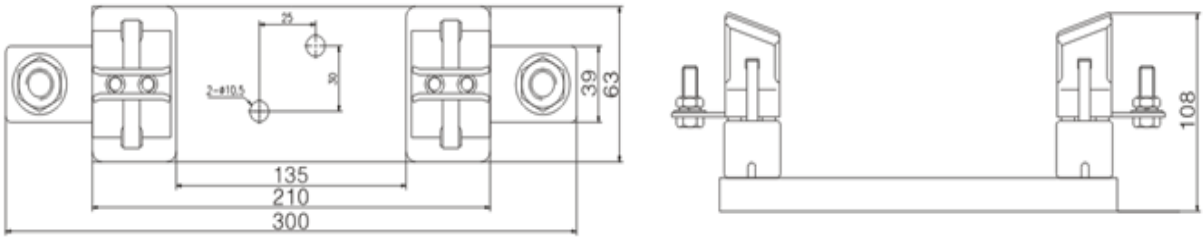
Type_3 Fuse



型号 Model	额定电压 Rated Voltage	额定电流 Rated Current	使用类别 Class of Operation	尺寸(mm) SIZE（mm）
NSPV-NH3L	DC 1500V	200A-500A	gPV	见上图 See Above Drawing
	参考标准 Standard	分断能力 Breaking Capacity	时间常数 Time Constant	
	IEC60269	50kA	1-3ms	

Type_3 Base



Model 型号	Rated Voltage 额定电压	Rated Current 额定电流	Class of Operation 使用类别	SIZE(mm) 尺寸(mm)
NSPV-NH3LB	DC 1500V	630A	gPV	见上图 See Above Drawing
	Standard 参考标准	Screw Size 螺栓型号	Torque 扭紧力矩	
	IEC60269	M10	32Nm	

功耗:
Power Dissipation:

NSPV-NH1XL	测试时间 Test time	环境温度(° C) Ambient Temperature(°C)	功耗@0.7In(W) Power Dissipation@0.7In (W)	功耗@1.0In Power Dissipation@1.0In(W)	额定分断能力(kA) Rated Breaking Capacity(kA)
35	1	20	6.5	12	30
50	1	20	7.5	15	30
63	1	20	8	18	30
80	1	20	8	18	30
100	2	20	9	22	30
125	2	20	12	27	30
160	2	20	15	33	30
200	3	20	16	37	30

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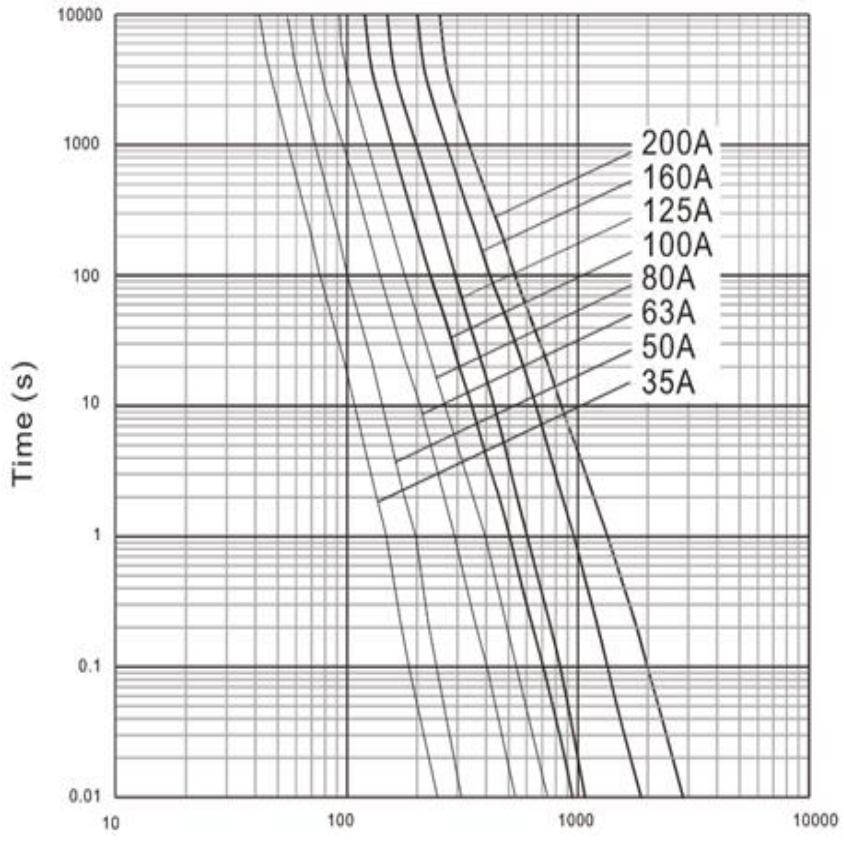
NSPV-NH2XL	测试时间 Test time	环境温度(° C) Ambient Temperature(°C)	功耗@0.7In(W) Power Dissipation@0.7In (W)	功耗@1.0In Power Dissipation@1.0In(W)	额定分断能力(kA) Rated Breaking Capacity(kA)
250	3	20	23	53	30
315	3	20	25	62	30
350	3	20	26	66	30
355	3	20	27	67	30
400	3	20	29	72	30
NSPV-NH3L	**测试时间** **Test time**	**环境温度(° C)** **Ambient Temperature(°C)**	**功耗@0.7In(W)** **Power Dissipation@0.7In (W)**	**功耗@1.0In** **Power Dissipation@1.0In(W)**	**额定分断能力(kA)** **Rated Breaking Capacity(kA)**
500	4	20	32	73	30

试验方法:
Testing Method:

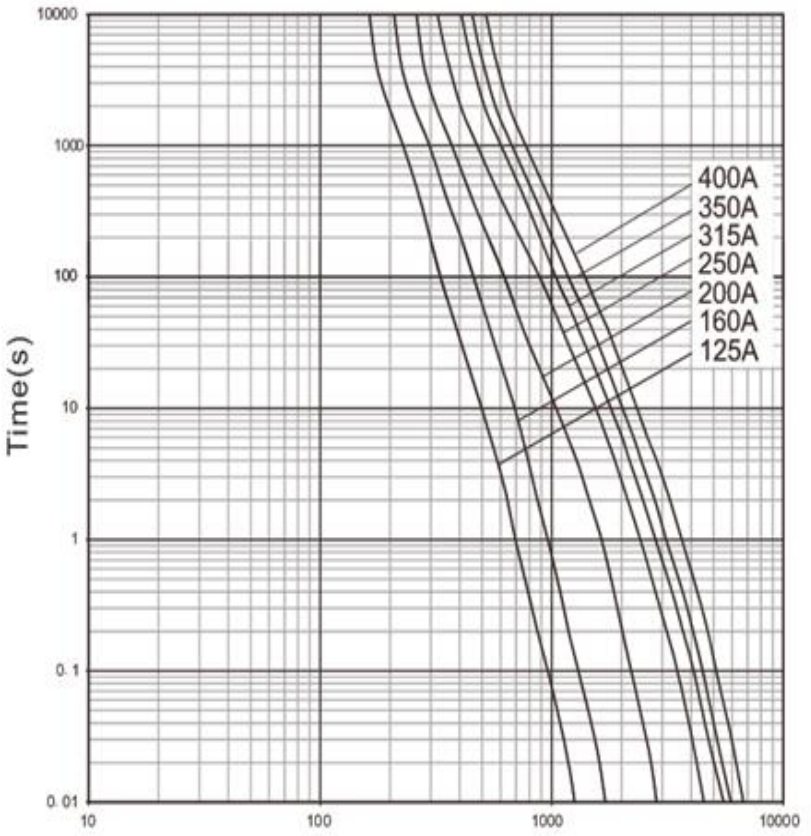
“gPV”熔断体的约定时间和约定电流
"gPV" The appointed time and current of Fuse

“gPV”熔断体额定电流A	约定时间 h	约定电流	
		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		

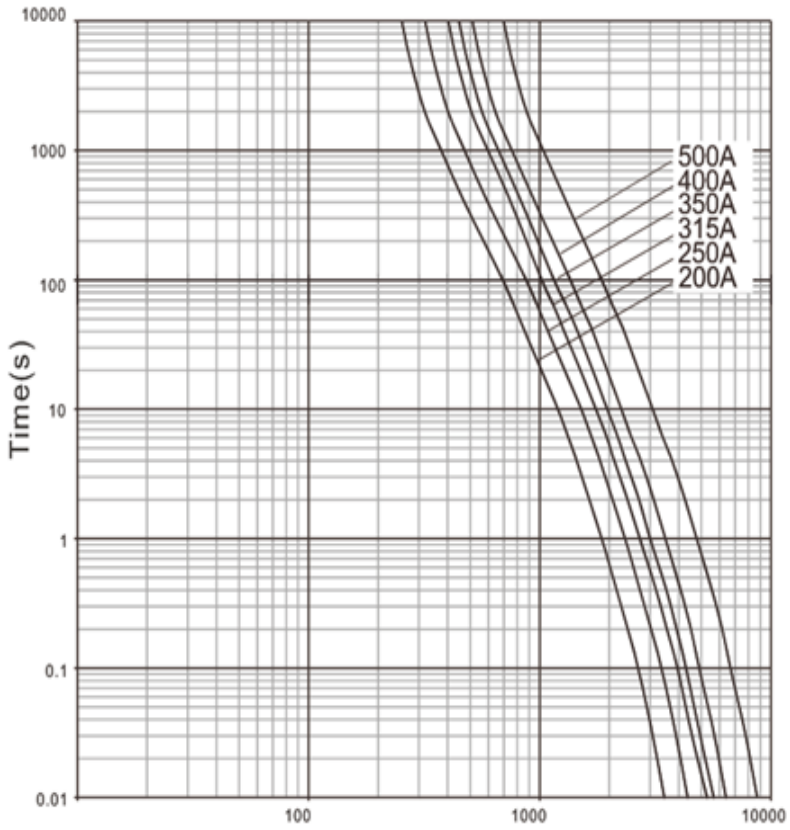
特性曲线图:
Characteristic Curve:



NSPV-NH1XL Prospective current(ARMS)



NSPV-NH2XL Prospective current(ARMS)



NSPV-NH3L Prospective current(ARMS)