

光伏直流熔断器 Photovoltaic DC fuse



► 用途

光伏熔断器主要用于太阳能光伏汇流箱中对可能产生的太阳能聚能板光伏串逆变器及其它电流反馈所产生的线路过载和短路电流的分断,从而起到保护整体光伏聚能板之用,此熔断器亦可选配在其他任何直流电路中作为对电器元件的线路过载和短路保护之用。

► 基本参数

额定电压:DC1000V, 额定电流至32A, 使用类型:gPV, 亦能派生:gG, aM等, 分断能力至20kA。熔断器制作的主要指导及符合标准为:GB13539.1/EC60269-1;GB/T13539.6/IEC60269-6;UL248-1&19/UL248-4248。

► 结构特点

熔断体的外形分圆管及方管,内部由银带制成的变截面导体,封装于耐高温、高强度的陶瓷管中,且充填足够的高硅石英砂作为填料,起灭弧介质作用。

► 基本数据

熔断器型号、外形尺寸、额定电压、额定电流见图/表。

► Application

PV fuse is mainly used in solar photovoltaic combiner box for the possible production of solar panels. Division of line overload and short circuit current caused by inverter and other current feedback of photovoltaic series. The fuse can also be used for other functions. It is used for overload and short circuit protection of electrical components in DC circuit.

► Basic parameters

Rated voltage: DC1000V, rated current up to 1250 A, use type: GPV, can also derive: GG, am, etc., breaking capacity up to 20kA. The main guidelines and standards for fuse manufacturing are: GB 13539.1/ec60269-1; GB / t13539.6 /IEC60269-6; UL248-1 & 19 /UI248-4248.

► Structural features

The shape of the fuse link is divided into round tube and square tube. The inner part of the fuse is made of silver tape. It is packaged in high temperature resistant and high strength ceramic tube, and filled with enough high silicon quartz sand as filler to play the role of arc extinguishing medium.

► Basic data

The model, dimension, rated voltage and current of fuse are shown in the figure / table.

太阳能(PV)发电保护用:熔断器 Solar (PV) power protection: fuse



► 应用 Application

一系列10x38mm的熔断体, 专门设计用于保护光伏串。这些熔断体能够中断与故障光伏串阵列(反向电流、多阵列故障)相关的低过电流。

A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).



► 结构特点 Structural features

- ☐ 根据 IEC60269-1 /According to IEC60269-1
- ☐ 额定电流: 1-32A/Rated current: 1-32A
- ☐ 额定电压: 直流1000V/Rated voltage: DC 1000V
- ☐ 额定分断能力: DC 20KA/Rated breaking capacity: DC 20KA
- ☐ 用于太阳能保护的操作类 gPV/Operating class gPV for Solar protection

► 规格 Specifications

极数 Pole	额定电压Ue (V DC) Rated Voltage Ue (V DC)	额定电流 (A) Rated Current In (A)	额定分断能力 (KA) Rated breaking capacity(KA)	最高功耗 (W) The Most High Power Consumption(W)
1P	1000	1,2,3,4,5,6,8,10,12,15,20,25,30,32	20	3.5

► 连接和安装 Connection and Installation

连接 (mm ²) /Connection(mm ²)	2.5-10
工作温度 (°C) /Working temperature(°C)	-30~+70
电阻和阻尼热 /Resistance And Damp Hot	第2类/Class 2
海拔 (米) /Altitude(m)	<2000
相对湿度 /Relative Humidity	<95%
保护等级/学位 /Protection Class/Degree	IP20
污染等级 /Pollution	3
安装环境 /Installation Environment	无明显冲击和振动/No obvious shock and vibration
安装类型 /Installation Class/Type	类 II/DIN 导轨/Class III/DIN rail

► 尺寸(毫米) Size(mm)

宽*长*高 /W*L*H	W	18
	H	60
	L	78
熔断器尺寸(mm) /Fuse Size(mm)		10x38
熔断器重量(kg) /Fuse Link Weight(kg)		0.09
熔断器底座重量(kg) /Fuse holder weight(kg)		0.07

► 应用条件 Application conditions

☐ 光伏系统保险丝符合UL248-1标准。

Photovoltaic system fuse accord with UL248-1 standard.

☐ 设计用于光伏(PV)系统的光伏电池熔断器。

Photovoltaic battery de fuse designed to used for photovoltaic (PV) system.

☐ 主要作用是保护太阳能电池板。有效状态下的太阳能电池板损坏。

Main effect is to protect the solar panels. Solar panels points in effective condition is broken.

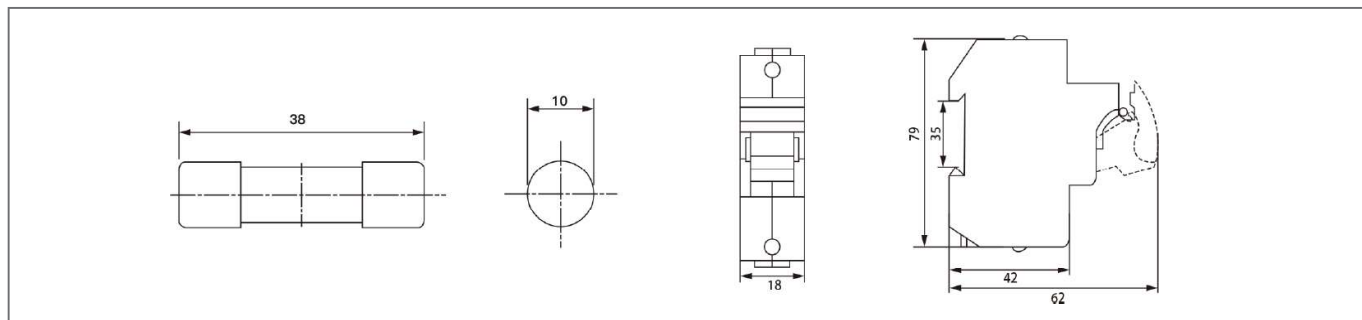
☐ 故障光电池同时断开点,不影响其他正常工作的灯组。

It won't affect other normal work of solar modular from the stack while disconnect the fault solar cells.

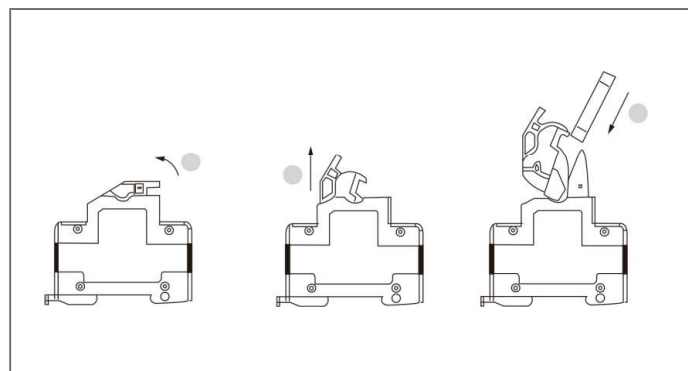
☐ 技术数据额定冷量:DC1000V分断能力:20KA功能等级:PV。

Technical Data Rated coltage: DC1000V Breaking capacity: 20KA Function level: PV.

► 产品尺寸 Dimension



► 安装方式 Installation



► 特性曲线 Characteristic curve

