



苏州快可光伏电子股份有限公司

产品规格书

Product Specification

產品名稱 : QC4.F

Product Name: QC4.F

客戶名稱 :

Customer Name:

供應商 : QC Solar

Vendor : QC Solar

承認簽章 (Confirmation)					
快可承認 (QC Solar confirmation)			客戶承認 (Customer confirmation)		
批准 Approved by	審核 Audited by	設計 Designed by	採購 Purchased by	品保 Quality Assured by	技術 Technical verified by

苏州快可光伏电子股份有限公司
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目录 Catalogue

1.产品外观及设计性能参数要求 Appearance, design and technical parameter...	2
2.连接器 BOM 清单 BOM of inline fuse connector.....	3
3.连接器图纸 Drawing of inline fuse connector.....	4
4.熔断丝规格 specification of fuse.....	5
5. TUV 证书 TUV certificate.....	8

1. 产品外观及设计性能参数要求

Appearance, design and technical parameters

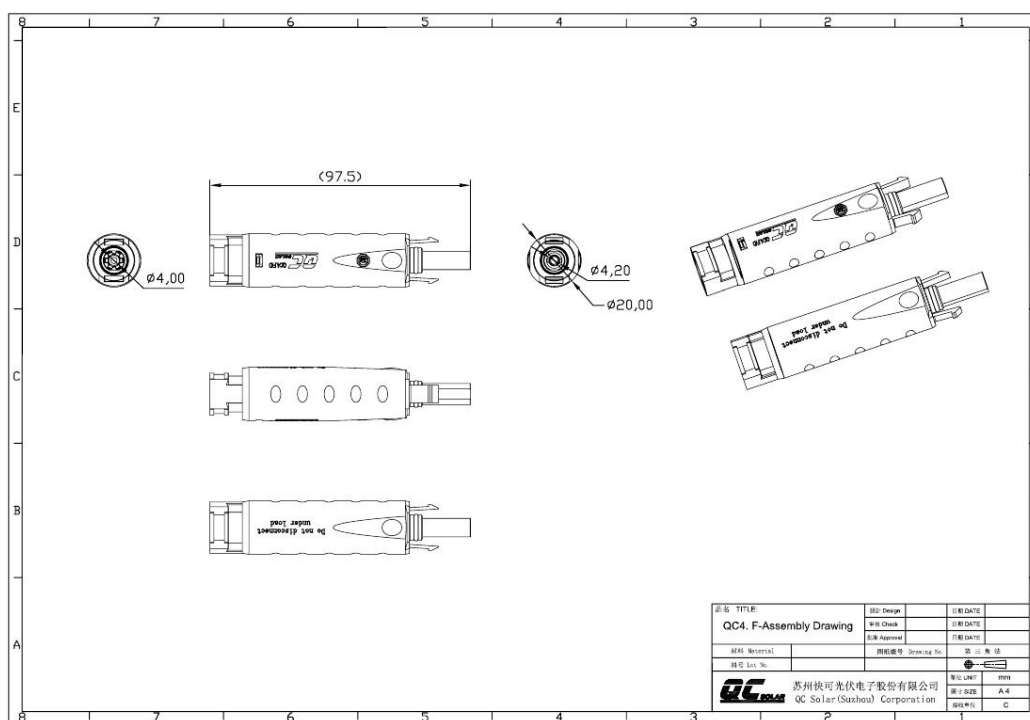
Item 项目	QC4.F/D
Contact System 适配的连接器系统	QC4、QC4.10、MC4、H4
Rated Current(J/D) 额定电流	1~30A
Rated Voltage 额定电压	1500V max
Withstand Rating 承受等级	10kA
Dimension 尺寸	97.5mm*Φ20mm
Temperature Range 温度范围	-40℃~+85℃
Contact Resistance 接触电阻	<5mΩ
Protection Degree 防护等级	IP68
Flammability Class 防火等级	5VA



2.熔断丝连接器 BOM 清单

BOM of inline fuse connector

 苏州快可光伏电子股份有限公司					
产品名称 Product name	熔断丝连接器 Inline fuse connector	材料清单 BOM		版本 Version	A0
产品型号 Product	QC4.F			张数 Paper	1
客户 customer				发行日期 Issue date	2017.07.20
序号 number	名称 Name	材质 Material	规格型号 Specification	数量 Quantity	备注 Note
1	O 型密封圈-红色 O-type seal ring-red	硅胶 silica gel	φ9.5*1.6	1 pcs	
2	O 型圈-红色 O-type ring-red	硅胶 silica gel	ID11.1*OD1.6	2 pcs	
3	保险丝插针 Metal plug	铜镀锡 Tin plated	29.25* φ 11.87mm	2 pcs	
4	保险丝插套 Metal socket	铜镀锡 Tin plated	30.75* φ 11.87mm	1 pcs	
5	卡圈 Electrical lock	钢 stainless steel	3.9* φ 4.8mm	1 pcs	
6	保险丝 Fuse	铜及氧化铝瓷 Copper/Alumina Ceramics	1500V 15A YRPV-30	1 pcs	
7	保险丝正极本体 Connector plug	塑料粒子 PPO	N/A	1 pcs	
8	保险丝负极本体 Connector socket	塑料粒子 PPO	N/A	1 pcs	



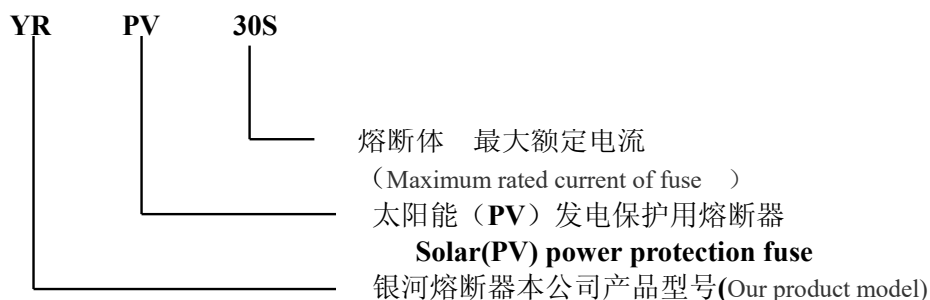
4.熔断丝规格 specification of fuse

4.1 产品简介 (Introduction)

本系列规格熔断体质用于直流，额定工作电压 **1500V**,额定工作电流 **1-30A** 的电气线路中作过载或短路保护。额定分断能力 **DC 1500V /20KA**,产品符合 **IEC60269-1、GB13539.1、IEC60269-6、GB13539.6** 标准。并是世界上最早获得德国莱茵认证机构颁发的 **TUV** 认证和 **CE** 认证，产品的技术性能指标，远超过国内外同类产品，已具有非常高的优势。熔断体的外形为管形，内部由纯银带制成的变截面导体，封装于耐高温、高强度的陶瓷管中，且充填足够的高高硅石英砂作为填料，起灭弧介质作用。

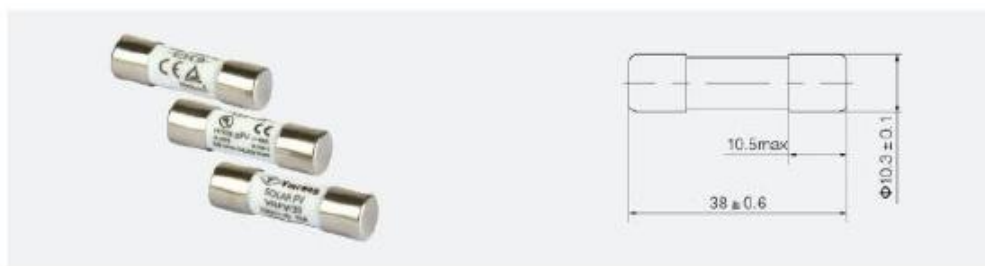
This series of specifications for the use of the physical, rated working voltage 1000V, rated working current 3-30A electric line for overload or short circuit protection. Rated breaking capacity 1500V /20KA DC, products comply with IEC60269-1, GB13539.1, IEC60269-6, GB13539.6 standards. And is the earliest to obtain the German Rhine certification body accreditation and CE certification, it is the product of technical performance indicators, far than the domestic and foreign similar products, has a considerable advantage. Fuse body shape is circular tube and internally by a sterling silver band made of variable load conductor, encapsulated in high temperature resistant, high strength ceramic tube and filling enough high silicon quartz sand as filler, an arc medium.

4.2 规格型号及命名规则 (Part Numbering System)



4.3 尺寸说明 (Dimensions)

1、外形尺寸 (Figuration dimensions)

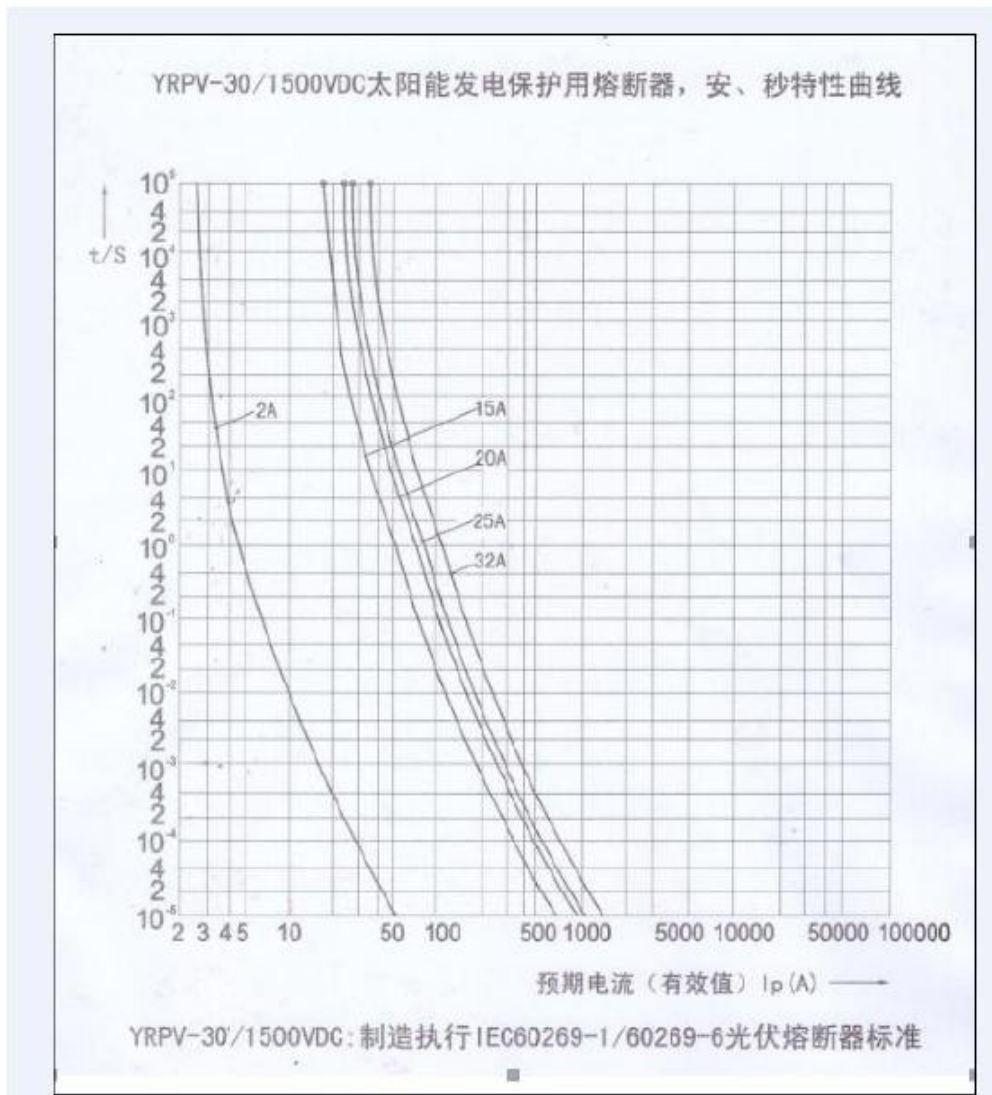


4.4 技术参数 (Characteristic)

1 电气参数 (Electrical parameters)

参数 (parametre)	指标 (value)	测试标准/方法 (Teststandard/method)
额定工作电压 (voltage)	DC1500V	专用智能数显熔断器熔化特性测试台 Specialintelligentdigitalfusemelting characteristics Testbench
额定工作电流 (current)	1A、2A、3A、4A、 5A、 6A、 8A、10A、12A、 15A、 20A、 25A、32A	专用智能数显熔断器熔化特性测试台 Specialintelligentdigitalfusemelting characteristics Testbench
熔断体的额定耗散功率 (Power dissipation of a fuse-link)	2.4W at 0.7In, 4.5W at In	专用智能数显熔断器熔化特性测试台 Specialintelligentdigitalfusemelting characteristics Testbench
熔断体的额定分断能力 (Breaking capacity of a fuse-link)	DC1500V 1-30A/20KA	专用智能数显熔断器熔化特性测试台 Specialintelligentdigitalfusemelting characteristics Testbench
熔断体的使用类别 (Utilization category of a fuselink)	gPV	IEC60269-1 GB13539-1 IEC60269-6 GB13539-6 UL248-19&1 UL4248

安装方式 (Installation method)	导轨式 Railtype



2 材料及表面处理 (Material)

- 1) 产品触头采用铜质、内部为高精度纯银带为主熔体、熔管选用 95%高氧化铝瓷、灭弧介质为 99.5%高硅石英砂。
- 2) 触头表面处理电镀加工为镀镍。

1)The contacts of the cup is the copper, the internal is high precision Sterling Silver with melt, melt pipe is made of 95% alumina ceramics, arc quenching medium is the high silica sand.

2)The contact surface treatment of electroplating for nickel plating.

5. TUV 证书 TUV certificate

Certificate No. B170977362005

ZERTIFIKAT ♦ CERTIFICATE ♦ 認証證書 ♦ CERTIFICADO ♦ CERTIFICAT

CERTIFICATE

No. B 17 09 77362 005

Holder of Certificate: QC Solar (Suzhou) Corporation

No.31, Xinfu Road, SIP.
215123 Suzhou
PEOPLE'S REPUBLIC OF CHINA

Production Facility(ies):

77362

Certification Mark:



Product Service



Product:

Connector
Connectors for Photovoltaic Systems

Model(s):

QC4.F

Parameters:

Rated Voltage:	Up to 1500VDC
Rated Current:	15A
Application Class:	A
Protection Class:	II
Degree of Protection:	For IP68(1m, 24h) use
Ambient Temperature:	-40°C~ + 85°C

Tested according to:

IEC 62852(ed.1)
EN 62852:2015
IEC 60947-3(ed.3.2)
IEC 60269-6(ed.1)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.:

704071715902-00

Valid until:

2022-09-04


Date, 2017-09-26
Page 1 of 1

(Yaquin Liu)



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TUV®