

2026

QC4.F-1500V产品介绍

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1、设计方案介绍 Design scheme introduction

QC4.F-abcde



1、设计方案介绍 Design scheme introduction

方案一：与光伏连接器对插使用

Option 1: Use in conjunction with photovoltaic connectors for mating.



方案二：外接电缆后与光伏连接器负极对插使用

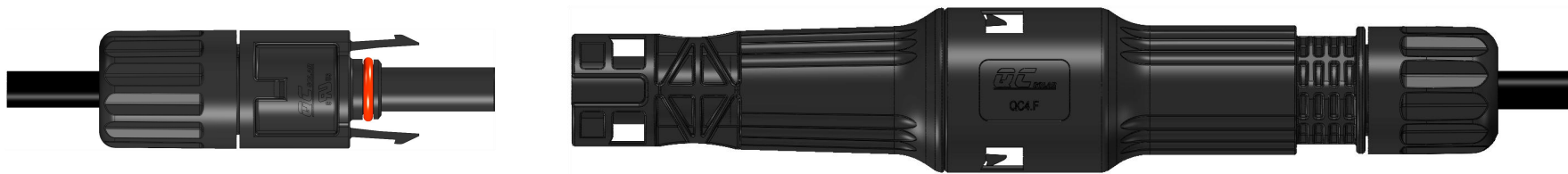
Option 2: After connecting the external cable, use it in conjunction with the negative pole of the photovoltaic connector for connection.



1、设计方案介绍 Design scheme introduction

方案三：外接电缆后与光伏连接器正极对插使用

Option 3: After connecting the external cable, use it in conjunction with the positive pole of the photovoltaic connector for connection.



方案四：外接电缆

Option 4: External Cable Connection



2、规格参数specification parameter

性能参数 Performance Parameters			
名称 Product Name	QC4.F-abcde	连接器电阻 Contact resistance	$\leq 0.5\text{m}\Omega$
证书编号 Certificate NO	DEKRA: 31-120416	金属导体材料 Contact material	铜,镀锡 Copper,Tin plated
保险丝电流 Rated Current	1A ~ 63A	阻燃等级 Flame class	V0
额定电压 Rated Voltage	1500V	安全等级 Safety degree	II
温度范围 Temperature Range	-40°C ~ +85°C	适配电线规格 Suitable cable cross sections	2.5mm ² 、4mm ² 、6mm ² 、10mm ² 、16mm ²
污染等级 Class Of Pollution	II	适配保险丝尺寸(mm) Suitable for fuse size(mm)	10*85 or 14*85
防护等级 IP Degree	IP68	适配连接器型号 Connector model	QC4.10系列、客户指定型号 QC4.10 series, customer-specified model
连接器电阻 Contact resistance	$\leq 0.5\text{m}\Omega$	温度上限 Upper limiting temperature	125°C
绝缘材料 Insulation material	PC、PA	产品标准 Product standard	IEC62852、IEC60269-6

2、规格参数specification parameter:型号名model name

QC4.F- a b c d e

"d" represents the fuse connector structure:

d=d1

d=d2

d=d3

d=d4

d=d5

The meaning represented by each item can be referred to in the following table.

"c" represents the size of the fuse:

c=c2 represents size is 10×85

c=c3 represents size is 14×85

"a" represents the rated voltage:

a=a11 represents 1100V

a=a15 represents 1500V

"e" represents the specification of the connected cable:

e=e0 represents without cables

e=e1 represents 2.5mm^2

e=e2 represents 4mm^2

e=e3 represents 6mm^2

e=e4 represents 10mm^2

e=e5 represents 16mm^2

"b" represents the current of the fuse:

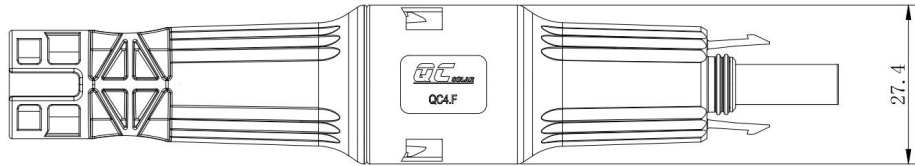
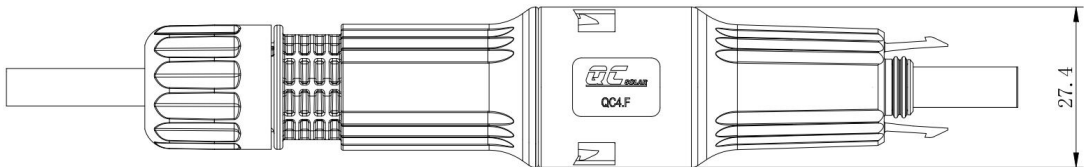
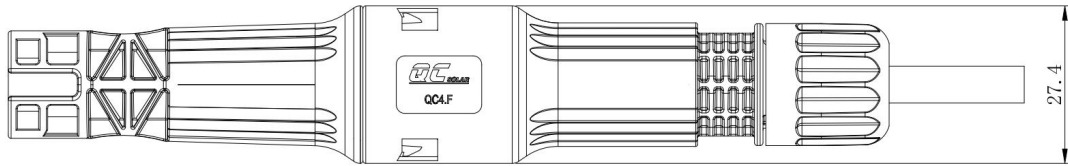
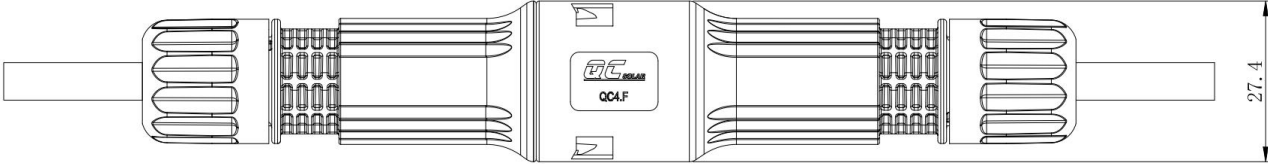
b=b1 represents 1A

b=b2 represents 2A

...

b=b50 represents 50A

2、规格参数specification parameter:型号名model name

图示Graphical representation	含义Meaning
	d=d2: 外径27.4mm, 两端均与光伏连接器直接对插 d=d2 represents that the outer diameter is 27.4mm, and both ends are directly plugged into the photovoltaic connector.
	d=d3: 外径27.4mm, 一端与光伏连接器负极对插, 另一端连接电缆 d=d3 represents that the outer diameter is 27.4mm, and one end is plugged into the negative pole of the photovoltaic connector, and the other end is connected to the cable.
	d=d4: 外径27.4mm, 一端与光伏连接器正极对插, 另一端连接电缆 d=d4 represents that the outer diameter is 27.4mm, and one end is inserted into the positive pole of the photovoltaic connector, and the other end is connected to the cable.
	d=d5: 外径27.4mm, 两端均连接电缆 d=d5 represents that the outer diameter is 27.4mm, and both ends are connected to cables

2、规格参数specification parameter:型号名model name

选型示例：

QC4.F-a15b5c2d2e0

代表额定电压为1500V、额定电流为5A、保险丝尺寸为10×85、结构为组合1的产品、不连接电缆

For example: QC4.F-a15b5c2d2e0

The rated voltage is 1500V, the fuse current is 5A, the fuse size is 10×85, the outer diameter of the product is 27.4mm. Both ends are directly plugged into the photovoltaic connector without connecting cables.

3、产品优势product superiority

(1) 选材Materials

采用进口绝缘材料：具有阻燃防火/耐寒耐高温抗老化使用寿命更长，可在-40℃~+85℃环境中稳定工作
Using imported insulating materials: It has flame-retardant and fire-resistant properties, is resistant to cold and high temperatures, and is anti-aging. The service life is longer and it can operate stably in an environment ranging from -40℃ to +85℃.



阻燃



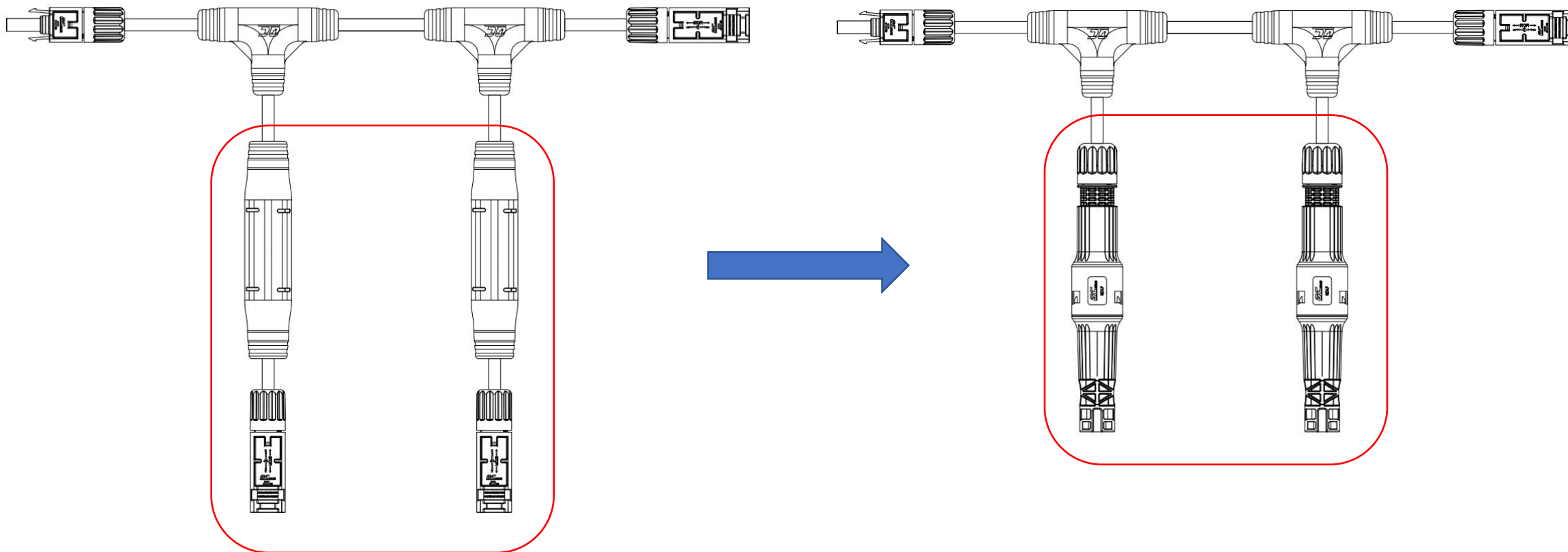
耐紫外



耐高温

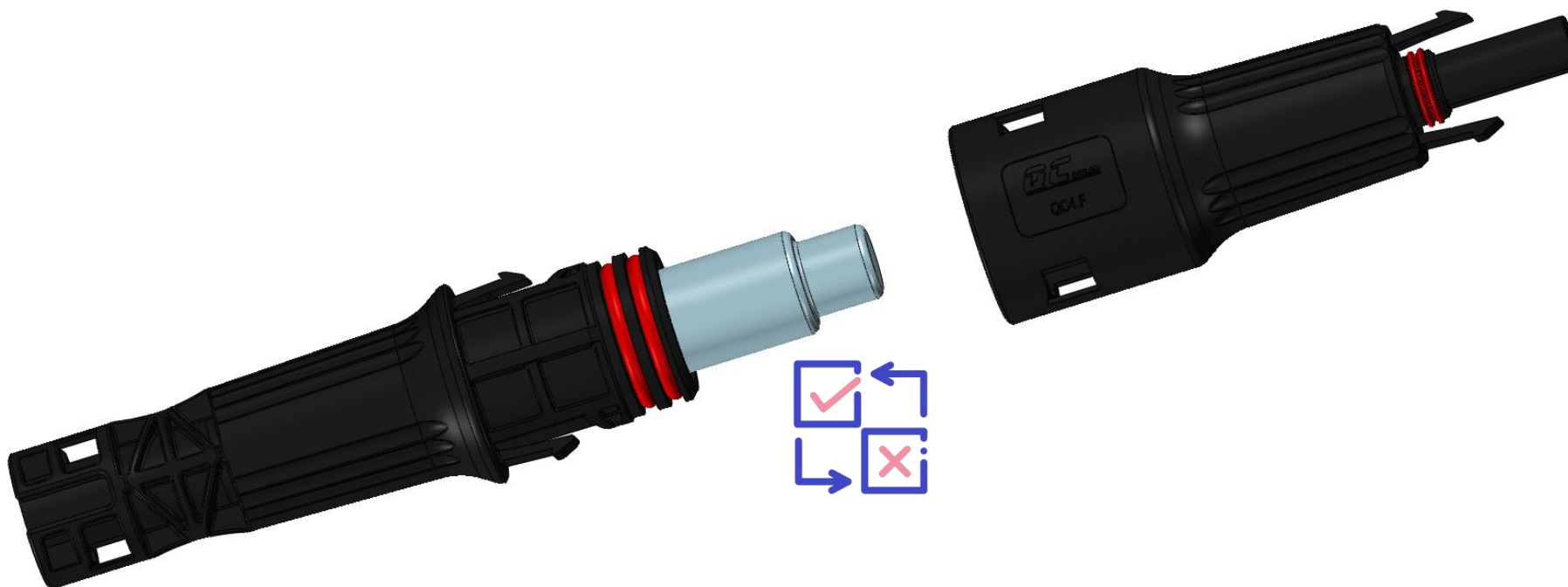
3、产品优势product superiority

(2) 灵活多变的组合方式，降低使用成本
Flexible and diverse combination methods, reducing usage costs



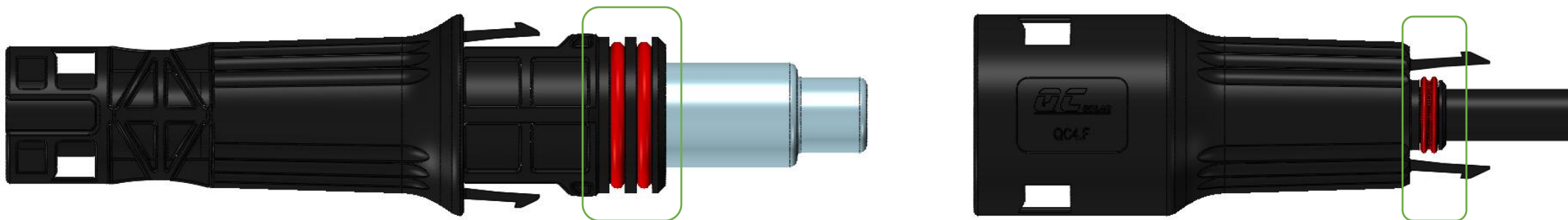
3、产品优势product superiority

(3) 保险丝可更换
The fuse can be replaced.



保险丝熔断后，用扳手解锁护壳即可更换内部保险丝，循环使用，节省成本，维护简单。
After the fuse blows, simply unlock the cover with a wrench and replace the internal fuse.
This can be done repeatedly, saving costs and making maintenance simple.

(4) 多道阻水设计 Multiple water-blocking design



双密封圈以及M型密封圈结构，即“两道防线”，可独立工作，一旦某一道因破损失效，其他的“防线”仍可保持完好，能保持IP68防水性能，安全性有所提高。从设计角度讲，为冗余设计，安全系数极大提高。

The double sealing ring and M-type sealing ring structure, namely "two lines of defense", can operate independently. Once one of the lines fails, the other "defense line" can still remain intact, maintaining the IP68 waterproof performance and enhancing safety. From a design perspective, it is an over-engineered approach, significantly increasing the safety factor.



谢谢观看

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快可电子

