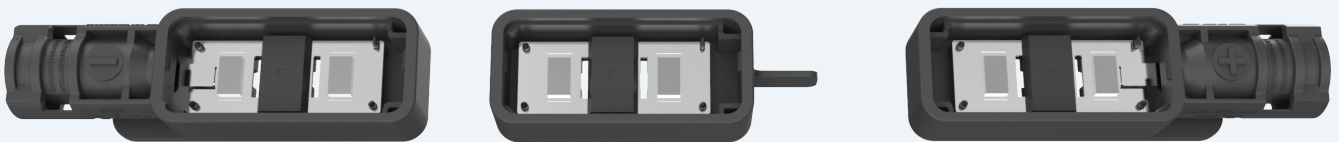


安装说明书

Installation Instructions

3Qxy 无线型接线盒

3Qxy Cable free junction box



1.警告 Warning

1.1 如果所有的零件和工具都不是 QC 订购的，或者你忽略了 QC 的安装说明，我们在你安装产品时无法保证产品的安全性和兼容性。

If all the parts and tools were not the ones that QC ordered, or you ignored QC' s installation instruction, we are not able to ensure the safety and compatibility of the products when you install them.

1.2 拆包后，操作人员应检查各部件是否齐全，各部件连接牢固。上述情况应进行安装。

After removing the package, the operator should check whether the components are complete, and the parts are firmly connected. The installation should be undertaken in the above situation.

1.3 在正式安装接线盒之前，请确保电池组件没有处于工作状态。如果必须在阳光下安装，请使用可靠的遮阳板覆盖电池，以避免产生的电流对电池造成电击。人体不能同时接触连接系统的正极和负极，否则会触电。

Before installing the junction box, please ensure that the panels are not in working condition. In case that you have to install them under the sunshine, please use reliable sunshield to cover the cells to avoid electric shock by the generated current. Human body should not touch the positive and negative of the connecting system at the same time, or you will be electric shocked.

1.4 在任何情况下，都不能将一套连接器系统的公插头和母插头插合在一起。否则可能导致接线盒和电池板严重损坏，太阳能发电系统无法正常工作。

In no circumstances, you can connect the male and female plug of the same connecting system. Or the junction box and panels may be badly destroyed, and the solar power generation system is not able to work properly.

1.5 接线端子的正负级、电缆的正负级是明确规定的，请用户不要自行调换极性或反接，这样可能会造成严重的后果。The positive and negative poles of the terminal and cable are fixed, please do not exchange it or reverse the polarity, or this may cause serious consequences.

1.6 如果要进行系统维护，请务必使该系统处于停止工作状态后再进行。

Please ensure to work under the situation of unload the power.

2.技术参数 Product Specifications

技术参数 Product Specifications	
名称 Product Name	3Qxy(x=K1 or 1 or K2 or 2 or K3 or 3 or K4 or 4 or K5 or 5 ; y=6)
额定电压 Rated Voltage	UL 1000V / 1500V
Rated Current (A dc)	20A / 22A / 25A / 30A / 35A
旁路二极管额定电流 Diode Rating	25A, 45V for QCM2545 ; 30A, 45V for QCM3045 40A, 45V for QCM4045 ; 50A, 45V for QCM5045 50A, 45V for QCM5045B ; 60A, 45V for QCM6045
外形尺寸 Overall Dimensions	79.5*24*17.9mm
电缆规格 Suitable cable	4mm ² or 6mm ²
阻燃等级 Flammability Class	5VB
温度范围 Temperature Range	-40°C ~+85°C
提醒 Caution	The electrical installation instructions shall include a detailed description of the wiring method to be used in accordance with the National Electrical Code, ANSI/NFPA 70.

3. 汇流带规格尺寸及所需工具 Ribbon size and required tools

所需工具。Required tools:

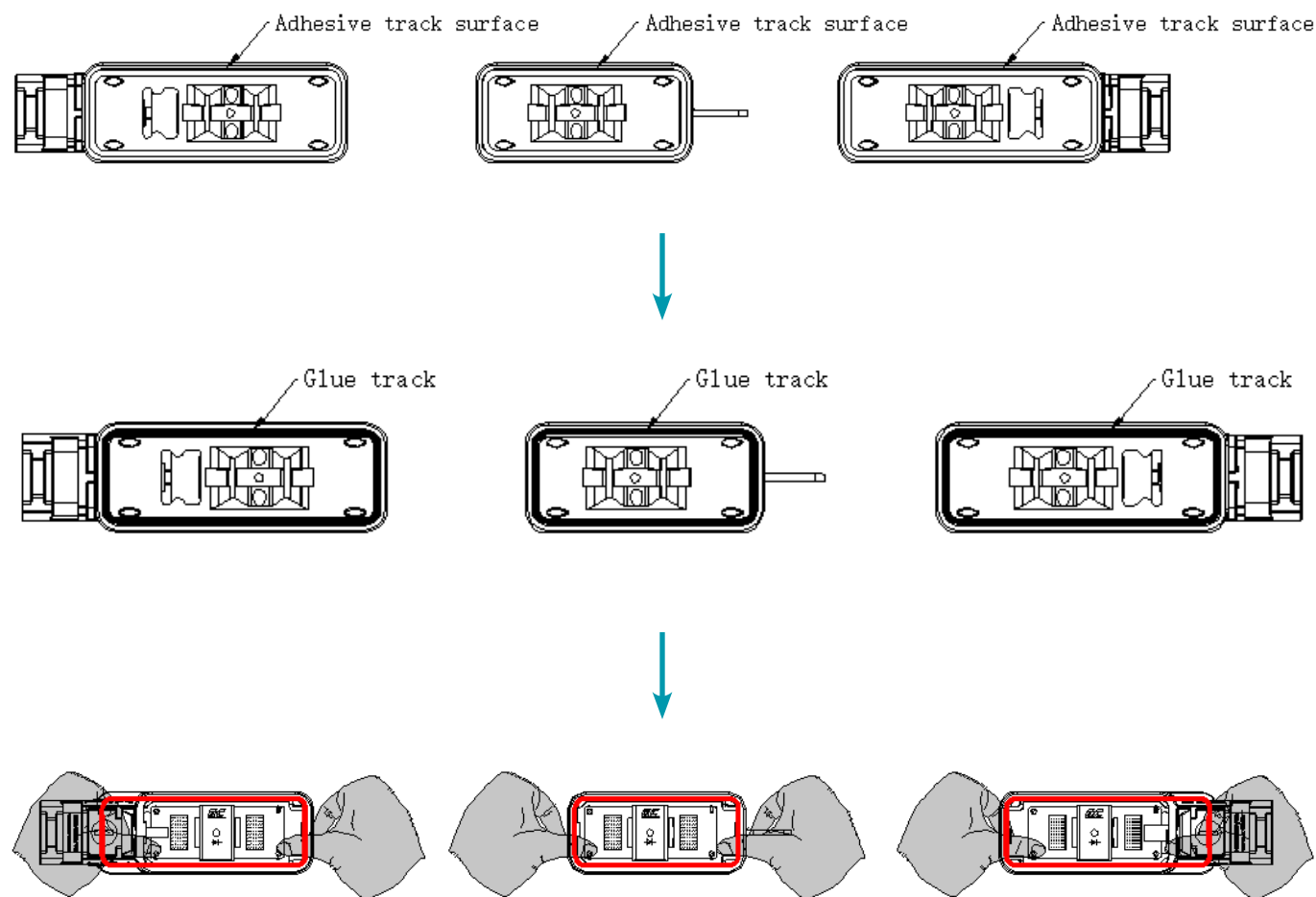
电烙铁，用于汇流带与端子的焊接。Electric iron, for the solder between ribbons and terminal.



4. 密封胶安装 Installation with seal tool

将密封胶均匀地放在箱体背面，如图所示的密封轨迹。外层硅胶宽度至少为 2mm。

Put the Sealing tool to the backside of Box equably, like the sealing contrail marked in the picture. The outer silicone width is at least 2mm.



5. 焊接汇流带 Ribbon Welding

将汇流带剪切到所需长度，插入接线盒的导引孔，然后弯曲，使用电烙铁焊接牢固。

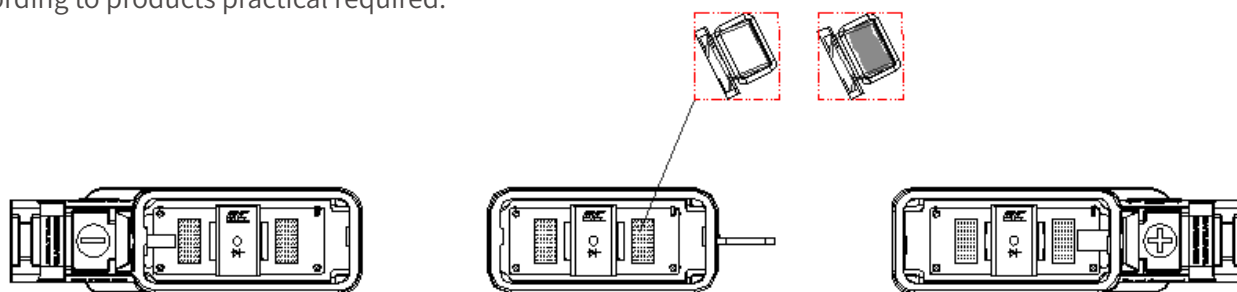
Cut the ribbon to the length needed, then curve and insert it to the open trough of the copper terminal. Weld the ribbon and copper terminal firmly with electric iron and tin wire.

建议焊接温度 :280~380°C，焊接时间 :1~5S，客户可根据产品实际应用情况进行调整，二极管是电子元器件，焊接过程中，严禁出现过压及超高温造成二极管折弯等异常。

Recommended welding temperature :280~380°C , welding time :1~5S, which can be adjusted according to the actual application of the product. The diode is an electronic component. During welding, do not bend the diode due to overvoltage or ultra-high temperature.

注意：接线盒出厂时，汇流带焊接位置仅是预涂锡。客户应根据产品实际应用要求进行锡量的增补。

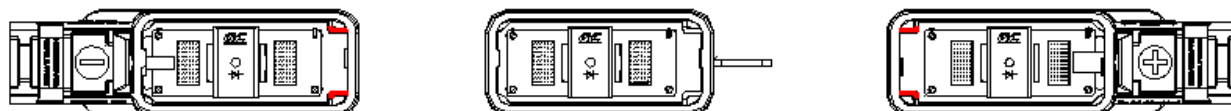
Notice: Ribbon's soldering position just pre-tin before leaving factory. Customers could add the amount of tin according to products practical required.



6. 接线盒的灌胶 Potting Instruction

接线盒灌胶面需与红色面齐平，如图 1 所示，灌胶量推荐值为 7mL 左右。

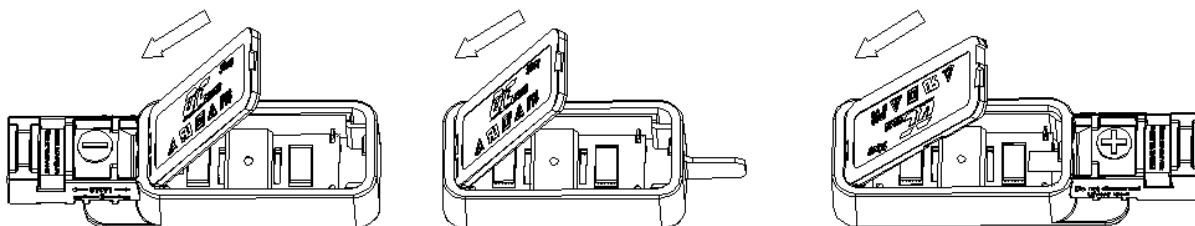
Junction box potting sealant should be flush with red face, as shown in Picture 1. Recommended potting amount around 7 ml.



7. 上盖安装 Cover Installation

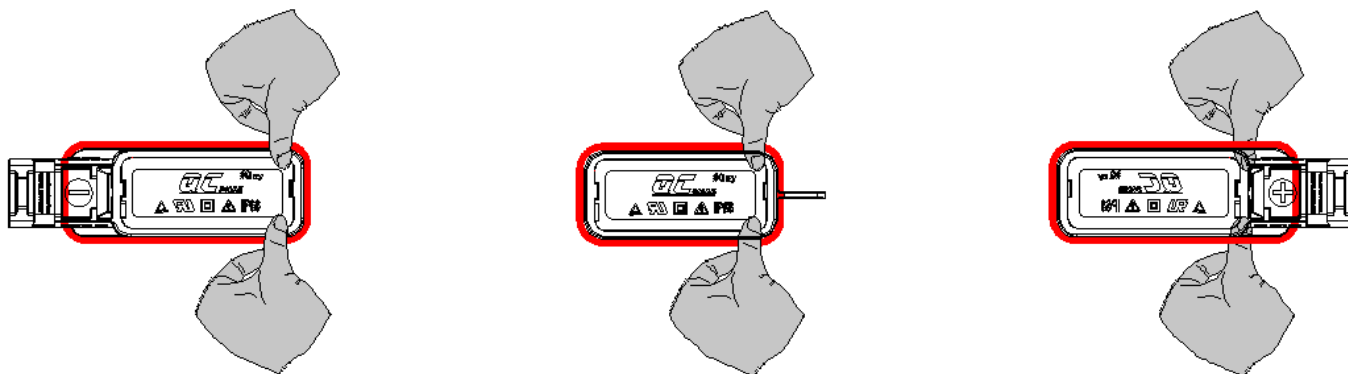
1) 将盖子倾斜插入外壳，然后向箭头所示方向用力将盖子推入外壳。

Insert the cover to the housing at an angle, then push the cover to the housing with the direction force.



2) 按压上盖，使上盖完全卡入底座。

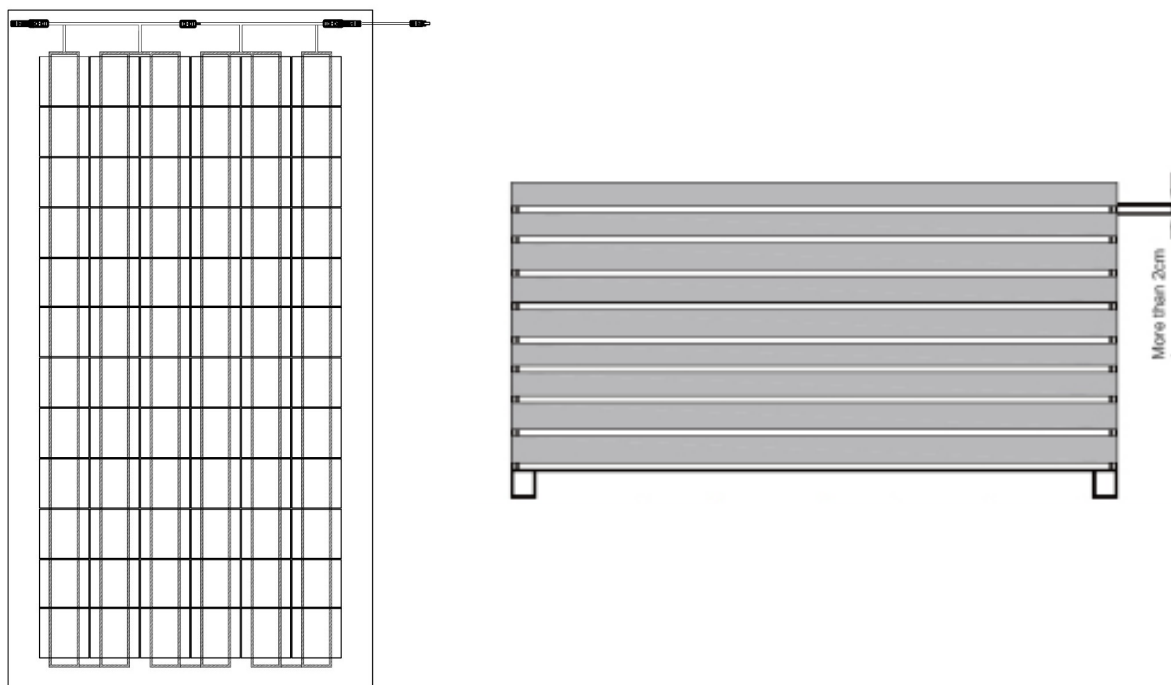
Press the cover to the bottom completely.



8. 注意事项 NOTE

太阳能组件粘接完接线盒后，组件与组件间需留有大于 2cm 的间隙；组件需在通风处静置 12 小时以上或至硅胶完全凝固后方可装箱，因为组件边框粘胶和接线盒粘胶在凝固时可能会释放一些腐蚀气体，该气体可能会对塑料或人体产生不良影响，严重时可能会导致接线盒或连接器产生开裂现象（如有疑问请咨询快可光伏或硅胶厂家）。

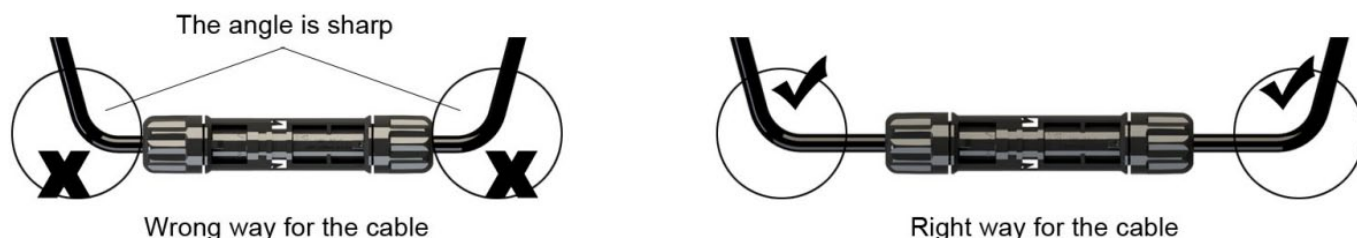
After installation of the J-Box to PV Module with silicon, we should keep more than 2 cm to each module; We should wait 12 hours to the solidification of the silicon, and after this, module could be packaged, because silicon of the J-box and Module installation may release some harmful corrosive air and that could be harmful to plastics and human beings. When the band begins to play, it may lead broken of the Nut of the QC connector and J-box.



9. 电缆连接 Cable's connection

注意：请参考电缆生产商的最小弯曲半径的详细要求。

Notice: Please refer to the detailed instruction ones of the min bend radius given by manufacturer.



接合状态。

The state after connection.



10. 联系方式 Contact us

如本说明书所述内容与您收到的产品不符，请以实收产品为准。本说明书可以根据顾客要求配发，在公司网站可以提供有条件下载服务，如果您需要更多的说明书，请来电与我们联系，所有公司技术资料仅作为使用产品时的参考用，不得利用它进行其他的商业活动。

If the product is not match with what described in the manual, please regard what you received as the right one. This manual can be dispensed according to customers' requirements, the company's Web site can provide conditional download service, if you need more brochures, please contact us. All technical data is only as a reference when using the product, it can not be used for other business activities.

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QC Solar (Suzhou) Corporation

 中国苏州工业园区新发路 31 号 (No.31,Xinfa Road,SIP,Suzhou,China, 215123.)

 0086-0512-62603392

 market@quick-contact.com

 www.quick-contact.com



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