

FT50xy 海洋光伏说明书

2024.10.10 版本:A0

FT50xy instruction for offshore PV module

Oct 10, 2024, Rev :A0

△请务必按照本说明进行操作，并且选择本说明指定的工具，否则可能会造成技术指标无法满足标准要求，同时避免可能导致个人伤害、产品损害等潜在危害。

△为防止触电，在安装时请与系统断开。

△请勿在负载下插拔。

△务必使用符合相关光伏标准的线缆。

△推荐使用脱醇型硅胶；如果使用脱肟型硅胶，在生产储存过程中，必须使硅胶中的 2-丁酮肟完全挥发出去，否则可能会导致塑料零部件开裂，金属件被腐蚀等不良现象。

△组件装配过程中，不能碰到对连接器有腐蚀作用的异物。

△如果组件安装后连接器没有即刻对插，需要使用防尘帽

△产品若有技术改进、外观变化，以机身铭牌及实物为准，变化将列入新版资料中，恕不另行通知。

△这种接线盒不适合永久接触水，应使用特定的代码名称或符号，根据防护等级IP65/IP68的最低要求，只允许喷水和浸入最大1米和1小时

△未经人和公司事先书面许可的情况下，严禁以任何形式复制、传递、分发和存储本文档中的内容。

△Make sure to carefully read and understand the instruction before installation. If tools other than those specified by the instruction used or if the assembly instructions described here are disregarded then compliance with the standard requirements can't be guaranteed. Meanwhile avoid potential hazards which may result in personal injury and product damage.

△For protection against electric shock, while being assembled or disassembled, make sure connectors isolated from the power supply.

△Connectors may not be connected or disconnected under load.

△The cables conformity with relevant photovoltaic standards must be used.

△We recommend you using dealcohol silicone. To use deoximation silicone will lead to metal parts corrosion and plastic parts crack if you do not fully volatilize 2-Butanone-oxime during production and storage.

△During the assembly process, keep the connectors away from any corrosive materials.

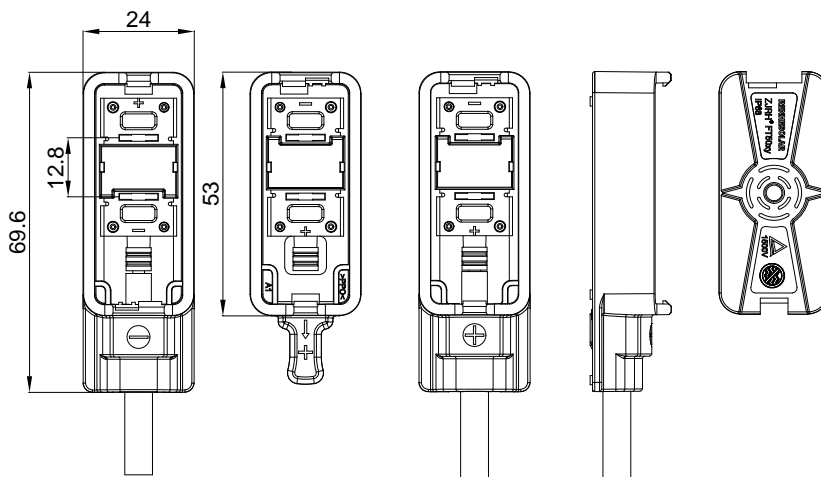
△For field use, if connector can't be mated immediately, please use dustproof cap to protect connector.

△Technological improvements and appearance changes may occur, please see the nameplate on the connectors and the connectors as the standard. The changes will be included in the new edition of instruction without extra notice.

△this kind of junction box is not suitable for permanent contact to water, A specific code designation or a symbol should be used, according to the minimum requirement of protection degree IP65/IP68, only spray water and immersion of max 1 m and 1 h is allowed

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成品 Finished Products



主要技术规格 Main Technical Specification:

认证 Certifications	TUV
额定电压 Rated Voltage	1500V for FT50xy 1000V for FT50xy
最大工作电压 Max. working (module) voltage	100V
额定电流 Rated current	20A for MK3045 25A for MK4045 30A for MK5045 or XND38-V30P or MK5045A 35A for MK6045
应用电缆线 Connecting capacity	Cable :2 pfg 2962/12.23;4mm ² suitable for 5.7~6.1 mm OD
相对温度指数 RTI of insulating materials	110°C
安全等级 Safety Class	Class II
污染等级 Pollution degree	1 (after potting, inside of box)
反向电流 Reverse current	48A
防护等级 Protection Degree	IP65/68(1m,1h)
最大环境温度 Maximum Ambient Temperature	-40 ~+85°C
应用连接器 Connector	RHC2 SMVu
连接方式 Type of connection	线 缆：压接/ Cable: crimped-type 二极管：模块/ Diode: modularized diode 焊 带：锡焊/ PV Ribbon: soldered-type

产品命名 Product's name

1、TUV 命名（TUV name）：

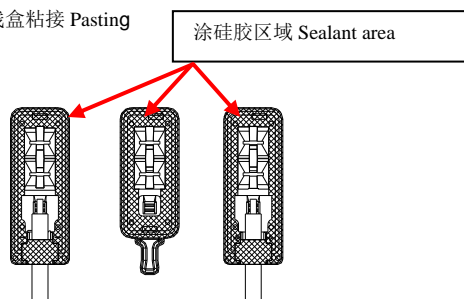
产品完整名称为FT50xy，xy为变量，其中x代表电流；y代表电压。

Product's full name is FT50xy, xy is variable, x is the information of rated current; y is system voltage information.

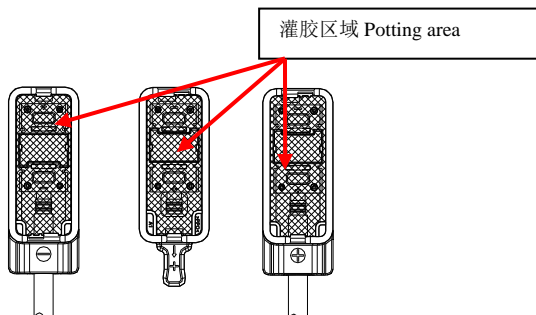
X	7	One positive junction box+one neutral junction box+one negative junction box, rated current 20A,diode module,type MK3045,by Renhe Photovoltaic Technology Co.,Ltd. Or by Yangzhou Yangjie Electronic Technology Co., Ltd. or by ChangZhou Star Sea Electronics Co.,Ltd. by AnHui Juxin Semiconductor Technolgy Co.,Ltd; by Hangzhou Daoming Microelectronics Co., Ltd. ;Peak reverse voltage 45V, average rectifier current 30A.Only for y=G,H,J,K;
	8	One positive junction box+one neutral junction box+one negative junction box, rated current 25A,diode module,type MK4045,by Renhe Photovoltaic Technology Co.,Ltd. Or by Yangzhou Yangjie Electronic Technology Co., Ltd. or by ChangZhou Star Sea Electronics Co.,Ltd. by AnHui Juxin Semiconductor Technology Co.,Ltd; by Hangzhou Daoming Microelectronics Co., Ltd. ;Peak reverse voltage 45V, average rectifier current 40A. Only for y=G,H,J,K
	9	One positive junction box+one neutral junction box+one negative junction box, rated current 30A,diode module,type MK5045,by Renhe Photovoltaic Technology Co.,Ltd. Or by Yangzhou Yangjie Electronic Technology Co., Ltd. or by ChangZhou Star Sea Electronics Co.,Ltd. by AnHui Juxin Semiconductor Technolgy Co.,Ltd; by Hangzhou Daoming Microelectronics Co., Ltd. ;Peak reverse voltage 45V, average rectifier current 50A. Only for y=G,H,J,K
	A	Rated current 30A diode module,type XND38-V30P, Peak reverse voltage 30V, average rectifier current 40A. by Renhe Photovoltaic Technology Co.,Ltd. Or . by southwest integrated circuit desing co.,Ltd. Only for y=G,H,J,K
	B	Rated current 35A diode module,type MK6045, Peak reverse voltage 45V, average rectifier current 60A. by Renhe Photovoltaic Technology Co.,Ltd. Or by Yangzhou Yangjie Electronic Technology Co., Ltd. or by ChangZhou Star Sea Electronics Co.,Ltd.or by by Hangzhou Daoming Microelectronics Co., Ltd. by AnHui Juxin Semiconductor Technolgy Co.,Ltd;Only for y=G,H,J,K
	C	Rated current 30A diode module,type MK5045A, Peak reverse voltage 45V, average rectifier current 50A. by Renhe Photovoltaic Technology Co.,Ltd. Or by Yangzhou Yangjie Electronic Technology Co., Ltd. or by ChangZhou Star Sea Electronics Co.,Ltd.or by by Hangzhou Daoming Microelectronics Co., Ltd. by AnHui Juxin Semiconductor Technolgy Co.,Ltd;Only for y=G,H,J,K
y	X	1000V system voltage
	Y	1500V system voltage

安装过程 Installation

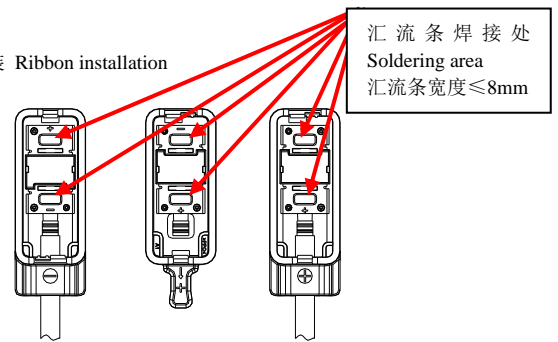
1.接线盒粘接 Pasting



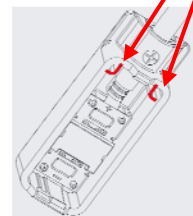
3.灌胶区域Potting



2. 汇流条安装 Ribbon installation



4. 最低灌胶面Lowest potting level



5. 盒盖的安装和打开/Installation and opening of lid

盒盖安装/Installation of lid: 1、插入1号或者2号卡扣/ Insert the number 1 or the number 2 buckle;

2、按入 2 号或者 1 号卡扣/ Press the number 2 or the number 1 buckle;

盒盖打开/Opening of lid: 用螺丝刀插入3号的卡槽中向外撬即可打开盖板/

Insert a screwdriver into the slot No. 3 and pry it outward to open the cover

3 号卡槽

