

PV-HDA11xy – 规格说明书

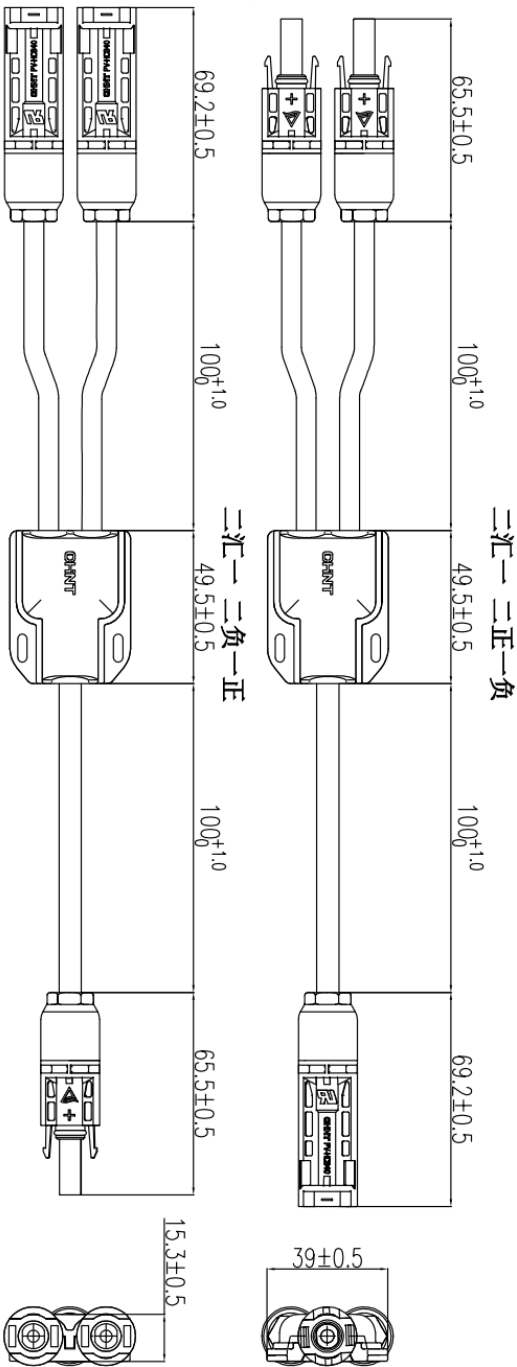
PV BRANCH COMBINER BOX INSTRUCTION



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产品图纸 Product Drawing



二汇一 (Two sinks one)

产品类型 (Product Type)

产品名称	产品图
PV-Y1	
PV-Y2	
PV-Y3	
PV-Y4	

产品介绍 Product Overview

该产品在设计使用时有以下特点：

1. 使用灌胶密封，散热性能好；
2. 满灌胶设计保证密封性能优秀；
3. 线缆与导体采用铆接、上锡工艺，连接可靠，接触电阻极小、功耗小；
4. 优质外壳材料具有抗紫外、抗老化性能，可长期使用；
5. 该系列克服了以往封包工艺易分层、抗冲击差的缺点；
6. 该系列体积小，灌胶量少，灌胶后散热性好，额定电流大；
7. 该系列占用空间小，箱体宽度即安装尺寸；
8. 线缆引出位置采用超声波工艺，一次超声与箱体、底座锁紧，结构可靠
9. 该系列采用环形闭环超声线设计，加强密封性能；
10. 多种规格可适配不同线缆规格、不同接头，且可接受定制；
11. 可支持直接悬挂以及扎带固定的连接方式。

The product has the following features when designed and used:

1. Using glue sealing, good heat dissipation performance, excellent sealing performance.
2. The cable and the conductor are riveted on the tin process, the contact resistance is very small, the power consumption is small.
3. The high-quality housing material has anti-ultraviolet and anti-aging properties, which can be used for a long time.
4. The series overcomes the shortcomings of easy layering and poor impact resistance in the previous encapsulation process. The junction box has small volume, good heat dissipation after gluing and large rated current.

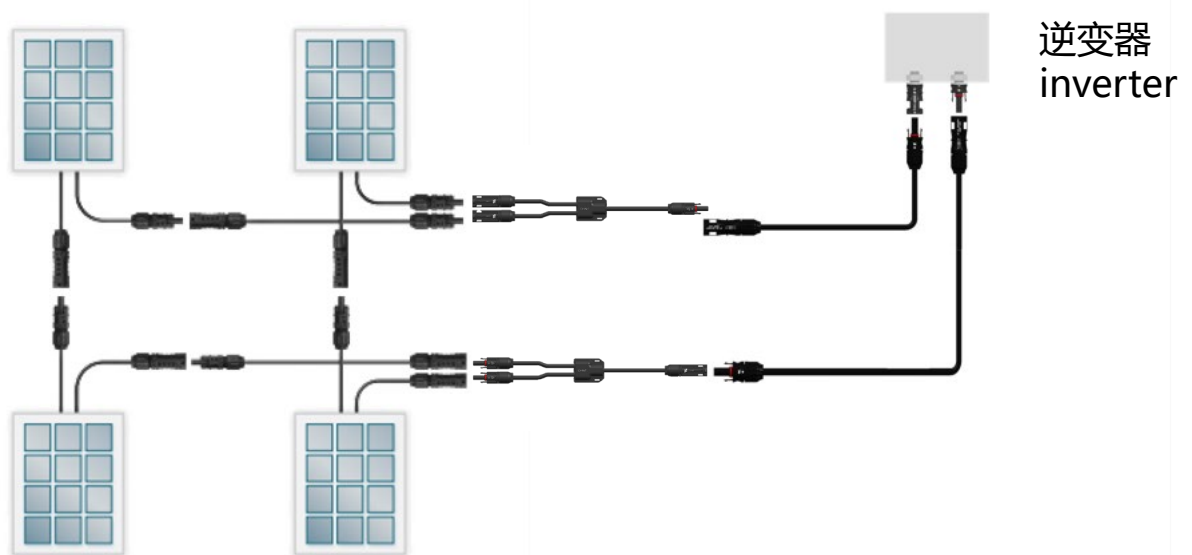
功能描述 Function description

该产品有以下功能：

1. 电气连接：将太阳能组件产生的电力与外部线路连接，传导光伏组件所产生的电流。
2. 用于光伏系统布线。但是不能直接连接逆变器上的面板插座。

The product has the following functions:

1. Electrical connection: connect the power generated by solar modules with external lines to conduct the current generated by photovoltaic modules.
2. Used for wiring photovoltaic systems. However, it cannot be directly connected to the panel socket on the inverter.



应用实例 Application example

技术规格 Technical Data

技术规格 TECHNICAL DATA

产品型号Product Type		PV-Yx
额定电流Rated Current	TUV	35/40/46/54A
额定电压 Rated Voltage		1000/1500V DC
环境温度 Temperature Range		-40~+85℃
保护等级 Protection Degree		IP66/IP68(1m,1h)
线缆规格 Rated Cable Wire		2.5/4/6mm ² 14/12/10AWG
接线盒尺寸 Overall Dimensions		49.5mm*39mm*15.3mm
安全等级 Safety Degree		II
阻燃等级 Flame Resistance		UL94 5VB
绝缘材料 Insulation Material		PPO+AB密封胶
接触电阻 Contact Resistance		≤0.25mΩ
接触材料 Contact Material		铜、镀锡
可选连接器 Optional Connector	MC4(1000V),PV-HCB40/New PV-HCB40/MC4 EVO2(1500V)等	
产品类型 Product Type		PV-Y1
		PV-Y2
		PV-Y3
		PV-Y4

Type name details

注：产品可兼容外径范围为5.6~7.5mm²的双认证线缆，其它尺寸可定制。

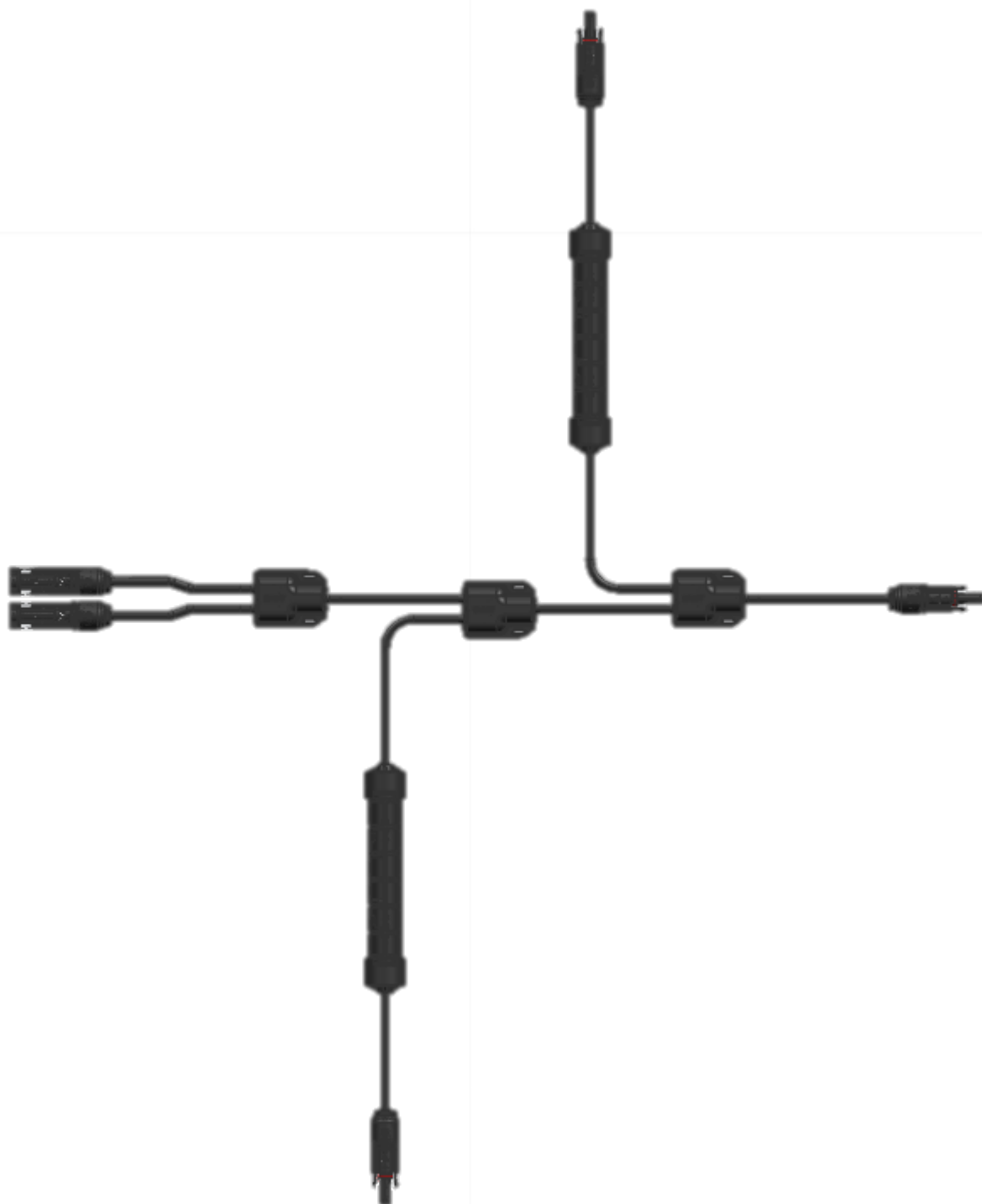


Type design ation	Wire cross section (x)	适配连接器	额定电流	额定电压
PV-Yx (TUV)	(x=1) 2 x 2,5mm ² , 1 x 4,0mm ²	MC4	TUV: 39A UL: 35A	TUV: 1000V UL: 1500V
		MC4 EVO2	TUV: 45A UL: 35A	TUV&UL: 1500V
		PV-HCB40	TUV: 40A UL: 35A	TUV&UL: 1500V
		PV-HCC40 (只用于4mm ² 线端)	TUV: 45A	TUV: 1500V
	(x=2) 3 x 4,0mm ²	MC4	TUV: 39A UL: 35A	TUV: 1000V UL: 1500V
		MC4 EVO2	TUV: 45A UL: 35A	TUV&UL: 1500V
		PV-HCB40	TUV: 40A UL: 35A	TUV&UL: 1500V
		PV-HCC40	TUV: 45A	TUV: 1500V
		New PV-HCB40	TUV: 46A UL: 30A	TUV&UL: 1500V
	(x=3) 2 x 4,0mm ² , 1 x 6,0mm ²	MC4	TUV: 39A UL: 50A	TUV: 1000V UL: 1500V
		MC4 EVO2	TUV: 53A UL: 50A	TUV&UL: 1500V
		PV-HCB40	TUV: 40A UL: 35A	TUV&UL: 1500V
		PV-HCC40	TUV: 45A	TUV: 1500V
		New PV-HCB40	TUV: 54A	TUV: 1500V
	(x=4) 3x 6,0mm ²	MC4	TUV: 39A UL: 50A	TUV: 1000V UL: 1500V
		MC4 EVO2	TUV: 53A UL: 50A	TUV&UL: 1500V
		PV-HCB40	TUV: 40A UL: 35A	TUV&UL: 1500V
		PV-HCC40	TUV: 45A	TUV: 1500V
		New PV-HCB40	TUV: 54A	TUV: 1500V

应用参考 Application REF.

产品样式举例（可根据终端应用定制）

Product Style (Customizability & Extendability)



注意事项

1. 禁止烷烃类、强酸、强碱物质接触连接器、接线盒，如汽油、清洗润滑剂、电子复活剂等含有烷烃物质的溶剂和工业污染排放的特殊气体等。
2. 连接器不可以和硅胶、灌封胶直接接触，连接器线缆禁止挂、拉重物。
3. 产品装卸及运输过程中注意轻拿轻放，不要受外力重压，以免造成损坏。
4. 工作人员应配有适当的静电防护措施。
5. 安装接线盒时不能将同一套的接线盒的正负极连接器插合在一起。
6. 正负连接时应完成插入，正负偶合，防止意外松脱。
7. 如果不是维护需要，请不要频繁进行连接系统的开合或插拔。
8. 维护时连接器不允许带电插拔（见下图连接器警示语）。
9. 户外维护应由专业人员进行。
10. 电气安装说明应包括根据美国国家电气规范ANSI/NFPA 70使用的接线方法的详细描述。
11. 连接时不应该浸入水中，应该为悬挂或摇摆态。

Matters Needing Attention

1. It is forbidden for alkane, strong acid and strong alkali substances to contact connectors and junction boxes, such as gasoline, cleaning lubricants, electronic resurrection agents and other solvents containing alkane substances, as well as special gases discharged from industrial pollution.
2. The connector shall not be in direct contact with the silica gel or the filling and sealing glue. The connector cable shall not be hung or pulled.
3. Handle gently when load , unload and transportation, and not subject to external pressure, so as to avoid damage.
- 4.The staff should be equipped with appropriate electrostatic protected measure.
- 5.When the junction box is installed, the positive and negative pole of the same set of junction box can not be inserted together.
- 6.When the positive and negative connections are made, the insertion should be completed, and the positive and negative couplings should be combined to prevent accidental loosening.
7. If do not need to maintenance, please don't open , close plug the connection system frequently.
- 8.Do not plug or unplug under load. This information printed on the connector.(See the connector warning below)
- 9.Outdoor maintenance should be carried out by professionals
- 10.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.
- 11.It should not be immersed in water when connected, it should be suspended or rocked.