

## PV-Fxy – 规格说明书

### PV FUSE INSTRUCTION

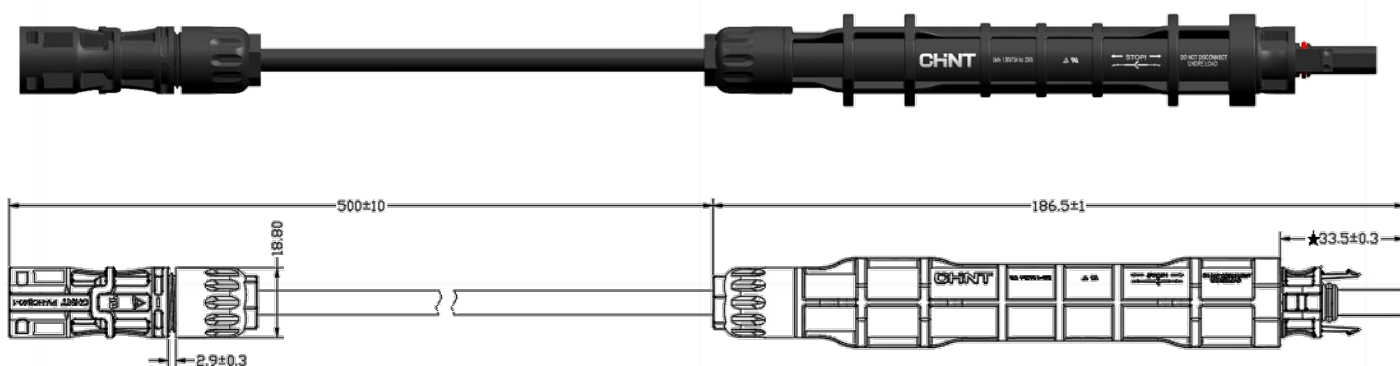


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## PV connector specification (PV-Fxy)

### 外形尺寸Overall dimensions



### 技术参数Technical parameters

|                              |                                    |
|------------------------------|------------------------------------|
| 产品名称/Name:                   | PV-Fxy                             |
| 额定电压/Rated voltage:          | 1500V                              |
| 额定电流/Rated current:          | 1A-50A                             |
| 线径规格 / Cable specifications: | 4/6/mm <sup>2</sup>                |
| 保护等级/Protection level:       | IP65/IP68                          |
| 安全等级Safety Class             | Class A                            |
| 接触电阻/ Contact Resist ions:   | ≤0.35mΩ                            |
| 温度范围 /Temperature range      | -40°C ~ +85°C                      |
| 电气连接/Electricall connection: | 压接Crimping                         |
| 分段能力/Breaking capacity       | 30 kA@DC 1500 V<br>50 kA@DC 1500 V |

技术参数/Technical Parameters

| 型号<br>/TYPE | 额定电压<br>/Rated<br>voltage | 额定电流/Rated<br>current |       | 线缆规格<br>/Cable<br>specification | 分断能<br>力/Breaki<br>ng<br>capacity | 连接器<br>/Connector                   |  |
|-------------|---------------------------|-----------------------|-------|---------------------------------|-----------------------------------|-------------------------------------|--|
|             |                           | IEC                   | UL    |                                 |                                   |                                     |  |
| PV-Fxy      | Y=1500V                   | X=1A                  | X=1A  | 4                               | 30 kA@<br>DC 1500 V               | PV-HCB40/EV02<br>等各品牌MC4连接<br>器均可适配 |  |
|             |                           | X=2A                  | X=2A  | 4                               |                                   |                                     |  |
|             |                           | X=3A                  | X=3A  | 4                               |                                   |                                     |  |
|             |                           | X=4A                  | X=4A  | 4                               |                                   |                                     |  |
|             |                           | X=5A                  | X=5A  | 4                               |                                   |                                     |  |
|             |                           | X=6A                  | X=6A  | 4                               |                                   |                                     |  |
|             |                           | X=8A                  | X=8A  | 4                               |                                   |                                     |  |
|             |                           | X=10A                 | X=10A | 4                               |                                   |                                     |  |
|             |                           | X=12A                 | X=12A | 4                               |                                   |                                     |  |
|             |                           | X=15A                 | X=15A | 4                               |                                   |                                     |  |
|             |                           | X=16A                 | X=16A | 4                               |                                   |                                     |  |
|             |                           | X=19A                 | X=19A | 4                               |                                   |                                     |  |
|             |                           | X=10A                 | X=10A | 4                               | 50 kA@<br>DC 1500 V               |                                     |  |
|             |                           | X=11A                 | X=11A | 4                               |                                   |                                     |  |
|             |                           | X=12A                 | X=12A | 4                               |                                   |                                     |  |
|             |                           | X=15A                 | X=15A | 4                               |                                   |                                     |  |
|             |                           | X=16A                 | X=16A | 4                               |                                   |                                     |  |
|             |                           | X=18A                 | X=18A | 4                               |                                   |                                     |  |
|             |                           | X=20A                 | X=20A | 4                               |                                   |                                     |  |
|             |                           | X=25A                 | X=25A | 4                               |                                   |                                     |  |
|             |                           | X=30A                 | X=30A | 4                               |                                   |                                     |  |
|             |                           | X=32A                 | X=32A | 6                               |                                   |                                     |  |
|             |                           | X=35A                 | X=35A | 6                               |                                   |                                     |  |
|             |                           | X=40A                 | X=40A | 6                               |                                   |                                     |  |
|             |                           | X=45A                 | X=45A | 6                               |                                   |                                     |  |
|             |                           | X=50A                 | X=50A | 6                               |                                   |                                     |  |

## 产品介绍 Technical Data

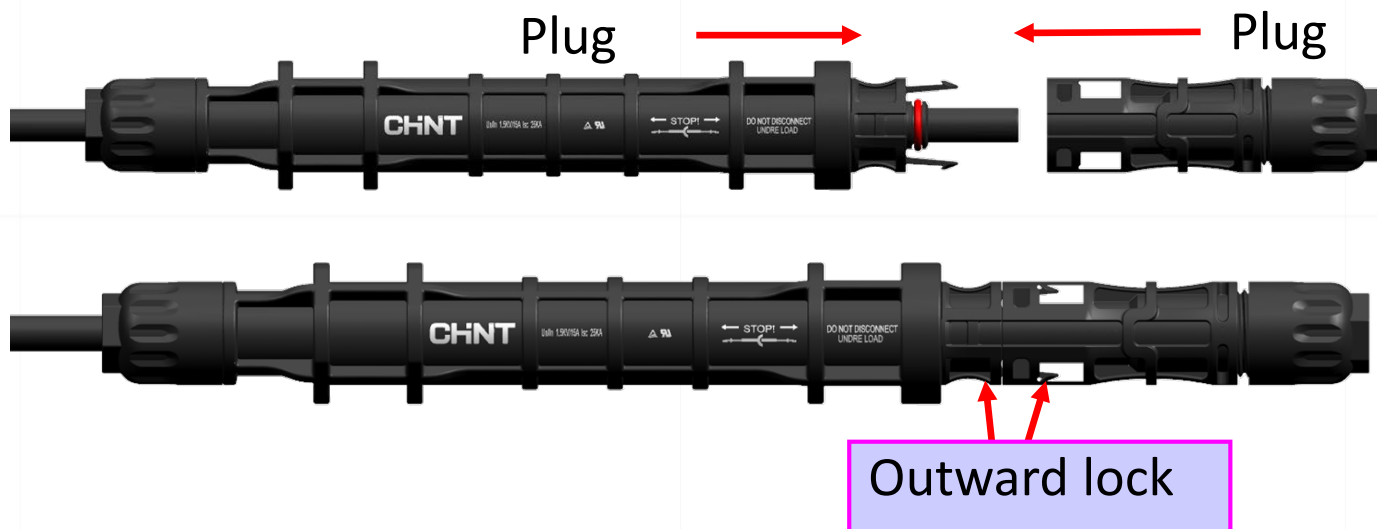
1. 多种连接器兼容：与多家品牌连接器组装使用，保证光伏系统连接的可靠性。
2. 安全性：使用铆接端口熔断管，连接可靠，熔断保护可靠。
3. 便利性：多规格可选，精准熔断保护，支持快速安装和维护。
4. 应用场景广：全场景光伏组件系统应用。



## 操作方法 Operation Method

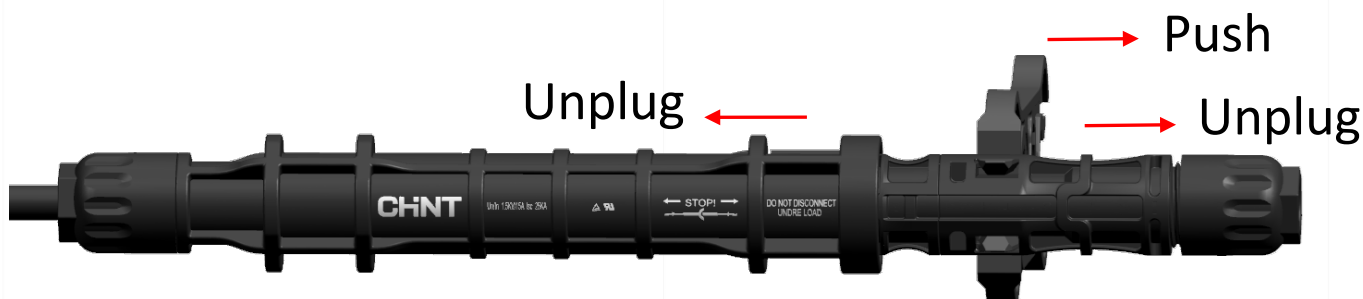
1. 正极连接器与负极连接器对插（如图）。

Plug the positive connector and the negative connector into each other (as shown in the figure)



2. 把专用工具/HCB40专用工具插入连接器扣位处往后推，同时正负连接器往相反方向拉就可打开连接器。

Insert the special tool (T02) into the connector button and push back, while the positive and negative connectors can be pulled in the opposite direction to open the connector.



## 注意事项

1. 产品必须在工厂端使用专用设备压接安装完成。
2. 禁止烷烃类、强酸、强碱物质接触产品，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。
3. 产品不可与硅胶、灌封胶直接接触，连接器线缆禁止挂、拉重物。
4. 产品线缆禁止挂、拉重物。改为与产品连接的线缆不可绷紧，不可挂拉物体。
5. 工作人员应配有适当的静电防护措施。
6. 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。
7. 维护时请务必先断开电路电流，再插拔连接器，以免电弧烧损连接，造成损失（需更换）。
8. 户外维护应由专业人员进行。



## Matters Needing Attention

1. The product must be crimped and installed at the factory using professional equipment.
2. Prohibit alkanes, strong acids, and strong alkalis from contacting products, such as gasoline, cleaning lubricants, and electronic reagents  
Solvents containing alkane substances such as active agents and special gases emitted by industrial pollution.
3. The product should not come into direct contact with silicone or potting adhesive. Connector cables are prohibited from hanging or pulling heavy objects.
4. It is forbidden to hang or pull heavy objects on the product cable. Instead, the cable connected to the product should not be tightened and objects should not be hung or pulled.
5. The staff should be equipped with appropriate electrostatic protection measures.
6. If it is not necessary for maintenance, please do not frequently open and close or plug and unplug the connection system.
7. When maintaining, please be sure to disconnect the circuit current first and then plug and unplug the connector to avoid arc burning the connection and causing losses (need to be replaced).
8. Outdoor maintenance should be carried out by professionals.
9. Electrical installation instructions should include a detailed description of the wiring method used in accordance with US National Electrical Code ANSI/NFPA 70.

