



# User manual

440-820007-00-04

---

---

PV Array Combiner Box

---

---



# Catalogue

**Product name**.....

**Agent or dealer(stamp)**

**Style NO.**.....

**Checker.....**

TEL.....

**Linkman**.....

...

**Series NO.**.....

**ADD.**.....

TEL.....

...

**Purchased date**.....

**Fax**.....

[illegible]

1、 Identification and description..... 1



2、 Product introduction..... 2

### 3、 Main feature..... 3



4、 Technical data..... 45、 Installation and use.....56、Appendix..... 8

## 1、 Safety instructions

1.1、 In order to better use product, please read the following instructions symbol:

	<p><b>WARNING !</b></p> <p>This symbol identification for informal operation might be in the safety of users dangerous or may cause significant hardware damage.</p>
	<p><b>INDICATE !</b></p> <p>This symbol identification for good system required for the operation of the matters needing attention.</p>

1.2、 Installation before use, please read this manual.

	<p><b>WARNING !</b></p> <p>All the operation and line connection ask professional personage to operation.</p>
	<p><b>WARNING !</b></p> <p>Please pay attention to personal and equipment safety.</p>

## 6.2、Evidence

Products in the quality assurance period require customers to buy the products show the invoice and date. At the same time the product of the trademark shall be clearly visible, or shall have the right to not be quality assurance.




**The following situation, this company has the right to not to quality assurance:**

- 1、Man-made damage to the equipment
- 2、Wrong installation and use
- 3、When using the maximum limit parameters beyond equipment requirements;
- 4、Abnormal natural environment damage caused;
- 5、Beyond that in this manual are very bad environment operation;
- 6、Beyond the relevant international standards specified in the installation and use of range.

## 6.3、Contact us

Do you have any questions about our product welcome to contact us and we will gladly for you to answer!

above the table

	<b>WARNING !</b> <b>Please note that photovoltaic array input of positive and negative polarity and the total output of the positive and negative polarity.</b>
	<b>WARNING !</b> <b>Installation or connection pv modules, please note pv modules produce high voltage, avoid shock hazard.</b>
	<b>WARNING !</b> <b>Ensure that the connection of fastening, for the user to use improper or cable wiring the loss caused by unstable, our company does not undertake any responsibility</b>

## 2、Product introduction

Photovoltaic power generation system, in order to reduce the photovoltaic module and inverter between the connecting cables, convenient maintenance, reduce the loss and improve the safety and reliability of the product, generally require in the photovoltaic module and inverter added between confluence device.

Photovoltaic junction box besides having the function of pv bus outside, and at the same time, should also have a current counter-attack, over current protection, over-voltage protection, lightning protection and a series of perfect protection function.

This company produces the photovoltaic junction box with the above various functional requirements, and photovoltaic (PV) grid, from network type inverter supporting the use can form a complete set of photovoltaic power generation system solutions.

Select photovoltaic junction box, the user can according to the back end inverter input voltage range, output power size, a certain number of specifications of the same pv module series, parallel composition pv module series coordinate access photovoltaic junction box (see Figure1) bus, and then after circuit breaker control and lightning protection device protection after output for level inverter use.

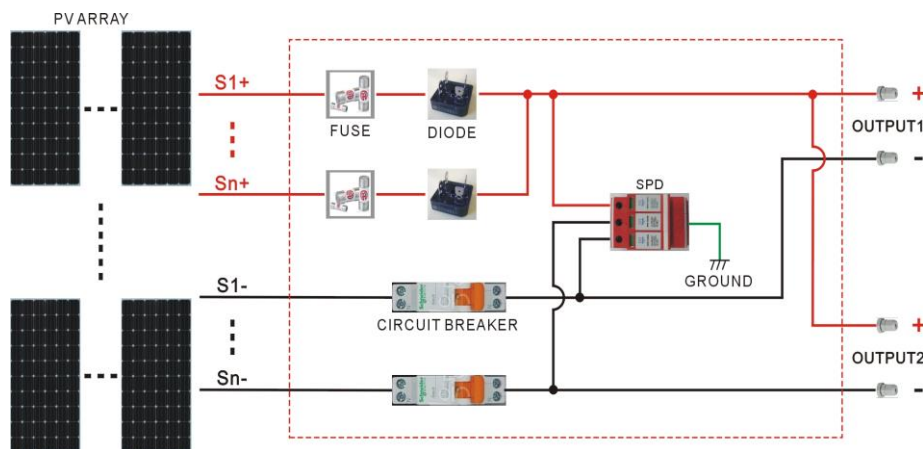


Figure 1 System connected graph

### 3、Main features:

- two sets of independent photovoltaic array input/output, maximum open circuit voltage 440 v
- multiway photovoltaic array input, single way input array maximum current of 10 A
- single way photovoltaic array to join the high-voltage fuse protection, counter-attack protection
- Photovoltaic special high voltage lightning protection device protection;
- Photovoltaic special high voltage circuit breaker control output;
- Meet outdoor installation requirements, protection class IP65;

**5.3.2、** The combiner is independent two sets of photovoltaic array input/output design, through reasonable photovoltaic array input connection, output power can be divided into two ways, to match the two way independent input controller is used.

**5.3.3、** when users connection system, please make sure that all the lines and equipment is reliable.

### 5.4、Over-current protection

When the pv module input current is too large, the fuse will break for protection; In addition, miniature circuit breaker also can prevent the system from current is too large, have over-current protection function.

	<p><b>WARNING !</b></p> <p>It is strictly prohibited to work in touch fuse, inspection or replacement is required before the fuse will dc circuit breaker off; Must be replaced with the original model of the same magnitude fuse.</p>
--	---

### 5.5、Over-voltage protection

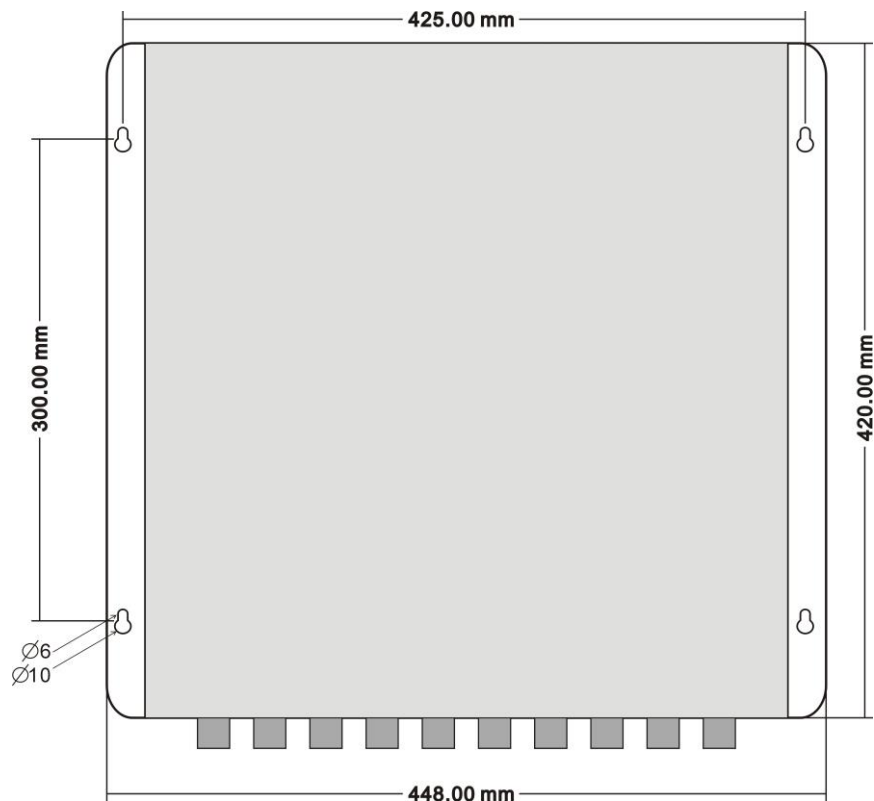
When the pv module input voltage is high, the miniature circuit breaker will automatically disconnect, have overvoltage protection function.

## 6、Appendix

### 6.1、Quality assurance

This product quality assurance period 1 year, otherwise stipulated in the contract period of the contract shall prevail.

### 5.2.3 、 eight/ten ways input combiner box installation size



Please arrange professionals and strictly in accordance with the above dimensions for operation.

### 5.3、 Fast connection

#### 5.3.1、 In order to improve the connection of rapidity and convenience, use

key to open the door of combiner box ,the photovoltaic array input wire connected to the corresponding terminal, pay attention to the photovoltaic array input line of the positive and negative polarity connection.

## 4、 Technical data

Model	H4T	H6T	H8T	H10T
Input data				
PV array input numbers	4	6	8	10
Max single PV array current	10A			
Single PV array fuse	16A			
Single PV array wire size	PG7、 4mm <sup>2</sup>			
Output data				
Output numbers	1			
Max output current	40A	60A	80A	100A
Each way output wire size	PG16、 each way 8mm <sup>2</sup>	PG16、 each way 10mm <sup>2</sup>	PG16、 each way 10mm <sup>2</sup>	PG16、 each way 16mm <sup>2</sup>
Max output voltage	440VDC			
DC output circuit breaker	yes			
Others data				
protection	IP65			
Temperature range	-30℃ ~ +60℃			
Reference weight (N.W/G.W.)	8.4/12.9		9.5/14.3	10.8/15.6
Machine size (D X W X H)	360*340*145mm		400*420*145mm	
Packaging size (D X W X H)	470*450*255mm		530*510*255mm	
Cooling way	Natural cooling			
SPD protection	yes			
Ground wire size	≥6mm2			

## 5、Installation and use

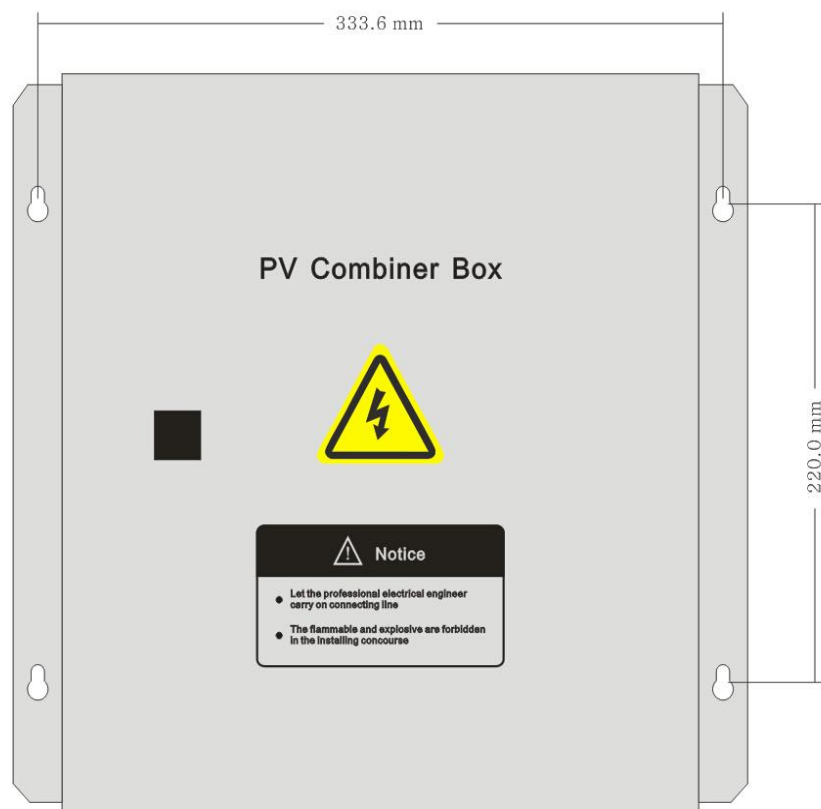
### 5.1、Device check

The customer received the goods please check the packing list, if any discrepancy please immediately contact with the company!

- 1、PV array combiner box
- 2、key;
- 3、user manual;

### 5.2、Installation

#### 5.2.1 、four ways input combiner box installation size



#### 5.2.2 、four ways input two ways output , six ways input combiner box installation size

