

## **PV Array Combiner Box**

### **Summary:**

Sandi PVB series PV Array Combiner is used for the connected of PV inverter and PV array to lessen the cable for the connecting, easy to maintain and improve the reliability. We always fix the DC convergence device between the PV inverter and PV array. With many years of experience in the PV power system, it is specially designed for the high efficiency and reliability; it is the supporting components of our PV inverter for the PV power generating. You could connect a certain number of PV components in series to be the PV array according to the voltage range of DC input; then, connect the PV array to PV lightning protection combiner box for the converge, through the output of lightning protection device and breaker, it is easy for switching-in of PV inverter and improve the system safety and lessen the installing time.

### **Features of PV array combiner box:**

- Applicable for outdoor PV systems;
- Each PV array attached to DC fused protection and anti-reverse protection optional;
- Wide DC voltage input range with maximum open-circuit voltage up to 1000V;
- High voltage Lightning protection (SPD) special for PV;
- PG cable glands connector input, convenient and safe system wiring;
- PV special high voltage circuit breaker control output;
- Protection class IP65 for outdoor use;
- Output Waterproof terminals;
- Wall mounting type is easy to installation
- Can be customized to user's specification



Sandi Electric Co., Ltd.



经济型光伏汇流箱 (ABS工程塑料型)  
**Economical PV Combiner Box (ABS Type)**



1进1出(1 in 1 out)



2进1出(2 in 1 out)



4进1出(4 in 1 out)



5进2出 ( 5 in 2 out )



6进1出( 6 in 1 out )



6进2出 ( 6 in 2 out )

户外型冷轧钢板喷塑工艺  
**Outdoor Style (Cold Rolled Sheet with Power Coating)**



6路输入 (6 strings in)



8路输入 (8 strings in)



10路输入(10 strings in)



12路输入(12 strings in)





16路输入(16 strings in)




24路输入(24 strings in)


**Technical Parameters:**

Type Designation	PVB-2	PVB-4	PVB-5	PVB-6
Max. PV Array Input String	2	4	5	6
Max. PV Array Voltage	600Vdc / 1000Vdc			
Rated Current for Each String (Replaceable)	10A/15A	10A/15A	10A/15A	10A/15A
Output Terminal Type	PG21			
Rated Output Current	20A/30A	40A/60A	50A/75A	60A/90A
Input cable waterproof connector	PG7 (4mm PV cable)			
Output cable waterproof connector	PG21			
Output DC Circuit Breaker	Yes			
PV special lightning protection module	Yes			
Anti-reverse module protection	Optional			
Protection Degree	IP45			
Environment Temperature	-25~+60℃			
Environment Humidity	<90% No condensation			
Altitude	≤3000m			
Installation: indoors	Indoor/outdoor			
Box material	ABS plastic case			
Picture				


**Technical Parameters:**

Type Designation	PVB-6	PVB-8
Max. PV Array Input String	6	8
Max. PV Array Voltage	1000Vdc	
Rated Current for Each String (Replaceable)	10A/15A	10A/15A
Rated Output Current	60A/90A	80A/120A
Input cable waterproof connector	PG9 (4mm PV cable)	
Output cable waterproof connector	PG21	
Output DC Circuit Breaker	Yes	
PV special lightning protection module	Yes	
Anti-reverse module protection	Yes	
Protection Degree	IP65	
Environment Temperature	-25~+60°C	
Environment Humidity	<90% No condensation	
Altitude	≤3000m	
Installation: indoors	Indoor/outdoor	
Type of installation	Wall mount	
Box material	Cold Rolled Sheet with Powder Coating	
Picture		

**Technical Parameters:**

Type Designation	PVB-10	PVB-12
Max. PV Array Input String	10	12
Max. PV Array Voltage	1000Vdc	
Rated Current for Each String (Replaceable)	10A/15A	10A/15A
Rated Output Current	100A/150A	120A/180A
Input cable waterproof connector	PG9 (4mm PV cable)	
Output cable waterproof connector	PG21	
Output DC Circuit Breaker	Yes	
PV special lightning protection module	Yes	
Anti-reverse module protection	Yes	
Protection Degree	IP65	
Environment Temperature	-25~+60°C	
Environment Humidity	<90% No condensation	
Altitude	≤3000m	
Installation: indoors	Indoor/outdoor	
Type of installation	Wall mount	
Box material	Cold Rolled Sheet with Powder Coating	
Picture		

**Technical Parameters:**

Type Designation	PVB-16	PVB-24
Max. PV Array Input String	16	24
Max. PV Array Voltage	1000Vdc	
Rated Current for Each String (Replaceable)	10A/15A	10A/15A
Rated Output Current	160A/240A	240A/360A
Input cable waterproof connector	PG9 (4mm PV cable)	
Output cable waterproof connector	PG21	
Output DC Circuit Breaker	Yes	
PV special lightning protection module	Yes	
Anti-reverse module protection	Yes	
Protection Degree	IP65	
Environment Temperature	-25~+60°C	
Environment Humidity	<90% No condensation	
Altitude	≤3000m	
Installation: indoors	Indoor/outdoor	
Type of installation	Wall mount	
Box material	Cold Rolled Sheet with Powder Coating	
Picture		

※Above parameter only for reference, could be custom made to user specifications.