











PV Combiner Box(1-30 strings)

IP65 Economical ABS Engineering Plastic Type: 1-6 strings







IP65 Outdoor Cold Rolled Steel with Powder Coating: 4-30 strings







IP65 waterproof

ABB & Schneider circuit breaker

2.0 cold rolled steel plate spray process

DC fuse with LED fault indicator

RS485 monitor(Optional)

Copper bar wiring

Service life > 15 years

Overall cooling module

1000VDC SPD

1-28 strings can be customized

High temperature resistant silicone wire

DC1000V Anti-reverse module





PV Combiner Box

1. Product description

In solar photovoltaic system, in order to reduce connection between PV module and inverter, convenient maintenance, reduce consumption, improve its safety and stability, it needs to add combiner box between PV module and inverter.

PV combiner box has following function: PV convergence, current anti-reverse protection, over-current, over-voltage protection, lightning protection. Our combiner box has above function, and also could match with PV grid tie inverter and off grid inverter to compose one complete PV generating system. When choosing PV combiner box, user could connect solar panels in parallel or in series to place in combiner box according to inverter's input voltage range, output power, then go through breaker and surge protection to work with inverter.

2. Main characteristic:

- Applicable for outdoor PV systems;
- Each PV array attached to DC fused protection;
- ➤ Wide DC voltage input range with maximum open-circuit voltage up to 1000V;
- ➤ High voltage Lightning protection (SPD) special for PV;
- And anti-reverse protection(optional);
- ➤ PG cable glands/MC4 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;
- RS485 intelligent monitoring(Optional)



3. Technical Parameters:

Model	PVB-1	PVB-2	PVB-3	PVB-4	PVB-5	PVB-6
Input						
Max. PV Array Input Strings	1	2	3	4	5	6
Max. PV Array Voltage	1000Vdc					
Each string input rated current	10A/15A	10A/15A	10A/15A	10A/15A	10A/15A	10A/15A
Input over-current fuse	Yes					
Anti-reverse module protection	Optional					
Input connector	PG7 cable gland					
Output						
Output Strings	1 (can be customized)					
Rated Output Current	10A/15A	20A/30A	30A/45A	40A/60A	50A/75A	60A/90A
Output DC Circuit Breaker	Yes					
Surge protective device(SPD)	Yes					
Output connector	PG21 cable gland					
Other						
Protection Degree	IP65					
Environment Temperature	−25~+60°C					
Environment Humidity	<90% No condensation					
Altitude	≤3000m					
Installation	Indoor/outdoor					
Box material	ABS engineering plastic box					
Product Picture	Sandi Pari					



Model	PVB-8	PVB-10	PVB-12	PVB-16	PVB-20	PVB-24
Input						
Max. PV Array Input Strings	8	10	12	16	20	24
Max. PV Array Voltage	1000Vdc					
Each string input rated current	10A/15A	10A/15A	10A/15A	10A/15A	10A/15A	10A/15A
Input over-current fuse	Yes					
Anti-reverse module protection	Yes					
Input connector	PG9 cable gland					
Output						
Output Strings	1 (can be customized)					
Rated Output Current	80/120A	100/150A	120/180A	160/240A	200/300A	240/360A
Output DC Circuit Breaker	Yes					
Surge protective device(SPD)	Yes					
Output connector	PG21 cable gland					
Other						
Protection Degree	IP65					
Environment Temperature	−25~+60°C					
Environment Humidity	<90% No condensation					
Altitude	≤3000m					
Installation	outdoor					
Box material	Iron with powder coating					
Type of installation	Wall mount					
Product Picture	PV Combiner Box PVB-24 PVB-24 系统常义进电气有限分句 FUEQUOS SANDIELECTRIC COLUMN					

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



Advantages & Packing

Sandi Difference between SANDI PV Combiner Box and Others

		A.1
	SANDI IP65 PV Combiner Box	Others
Picture	A. A	Use poor quality SPC easily to cause combiner box damaged
	Adopts DC1000V-40KA/2P PV special DC high voltage	Ordinary SPD is only suitable for below 300V low
(Surge Protection	1000V surge protection device(SPD), which has TUV	voltage, once system voltage is higher than 300V,
Device) SPD	approved, superior to other low-en-d product	the ordinary SPD will be burnt and cause the whole
		pv combiner box get fire
Circuit Breaker	Adopts PV DC high voltage circuit breaker 600V/2P or	Used AC/DC universal circuit breaker, less reliable
	1000V/4P, Schneider or ABB, which is more safe and reliable	and higher fault rate
_	Adopts DC1000V withstand voltage fuse with LED fault	
Fuse	indicator, which ensures reliable disconnection in high DC	
	voltage.	
	Adopts Anti-reverse protection module.	Used cheap anti-reverse diode, diode without heat
Anti-reverse	Withstand voltage can reach 1800V, module bottom with	sink, time is long, diode is easily oxidized, diode
module	heat sink, won't be oxidized and with longer service life than diode. It can protect solar arrays of reverse the current	withstand voltage level is also low. Shorter service life
	and PV input reverse-polarity protection.	ille
	IP65 protection class suitable for outdoor use.	
Protection class	The seal ring adopts heat-resistant silicon rubber, tightly	Normal rubber seal, waterproof performance is not
	consolidated with cabinet, it's waterproof, heat-resistant	better than us
	and anti-aging, superior to the common rubber	
Cable Adopts DC1000V silicone wire, which is anti-aging, made		Normal BVR cable, poor conductivity and aging serious if
Cable	by copper core silvering, high conductivity	used long time
Connector	Adopts high quality MC4 PV connector or PG cable	
	glands, which is convenient for wiring and waterproof	
Cooling	Adopts Aluminium radiator, which can keep it radiating well and fully	No radiator, poor cooling performance
	The cabinet adopts IP65 ABS engineering plastic or	Normal plastic and metal sheet, less durable and easily to
Cabinet	cold-roll steel sheets and spraying technology, which is	rust if used for long time
	heat-resistant, anti-corrosion, anti-rust, beautiful and	rust ii used for long time
	practical, strong and durable	
Camilaa	Direct Manufacture, Professional Factory, Quality and	
Service	Service is reliable	













Project Case





