



PHOTOVOLTAIC ARRAY COMBINER BOX

Professional photovoltaic combiner box:

The photovoltaic combiner box organizes the connection and confluence of photovoltaic modules. It is used to reduce the connection between the photovoltaic array and the inverter and optimize the system structure. It is convenient to cut off the circuit during maintenance and reduce the power outage range when the photovoltaic system fails. It will keep the photovoltaic system in optimum condition and increase the output power.

Safe and reliable protection:

It has short circuit/lightning strike/overvoltage/overcurrent protection/grounding protection to prevent damage to photovoltaic panels and inverter when they fail.

IP65 waterproof cold-roll steel sheets shell:

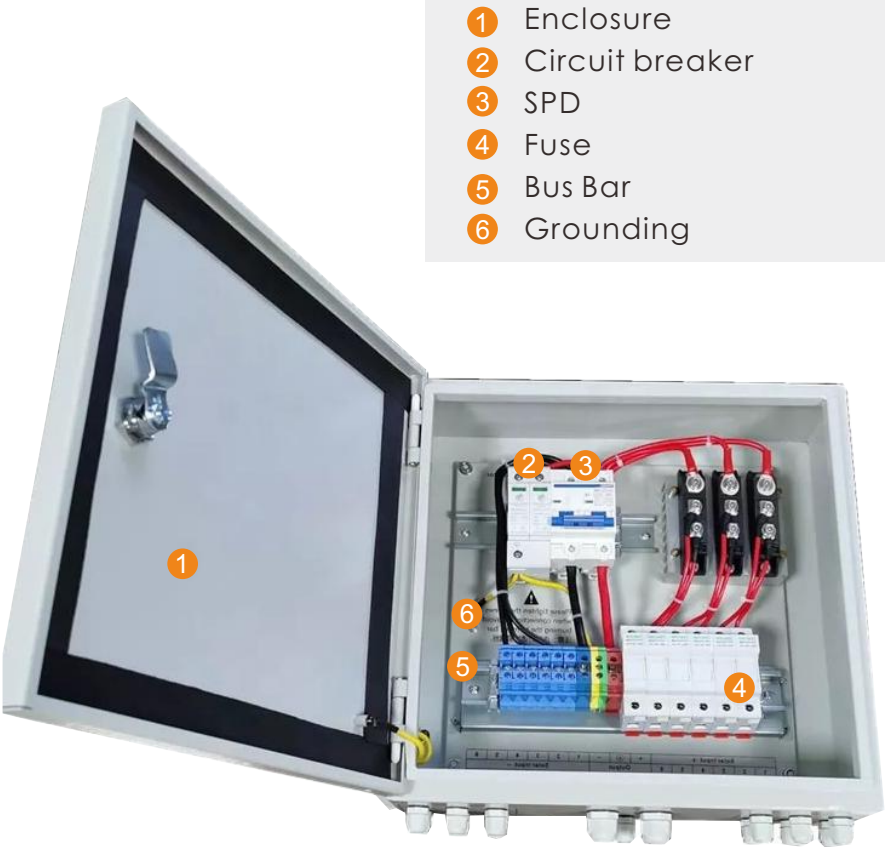
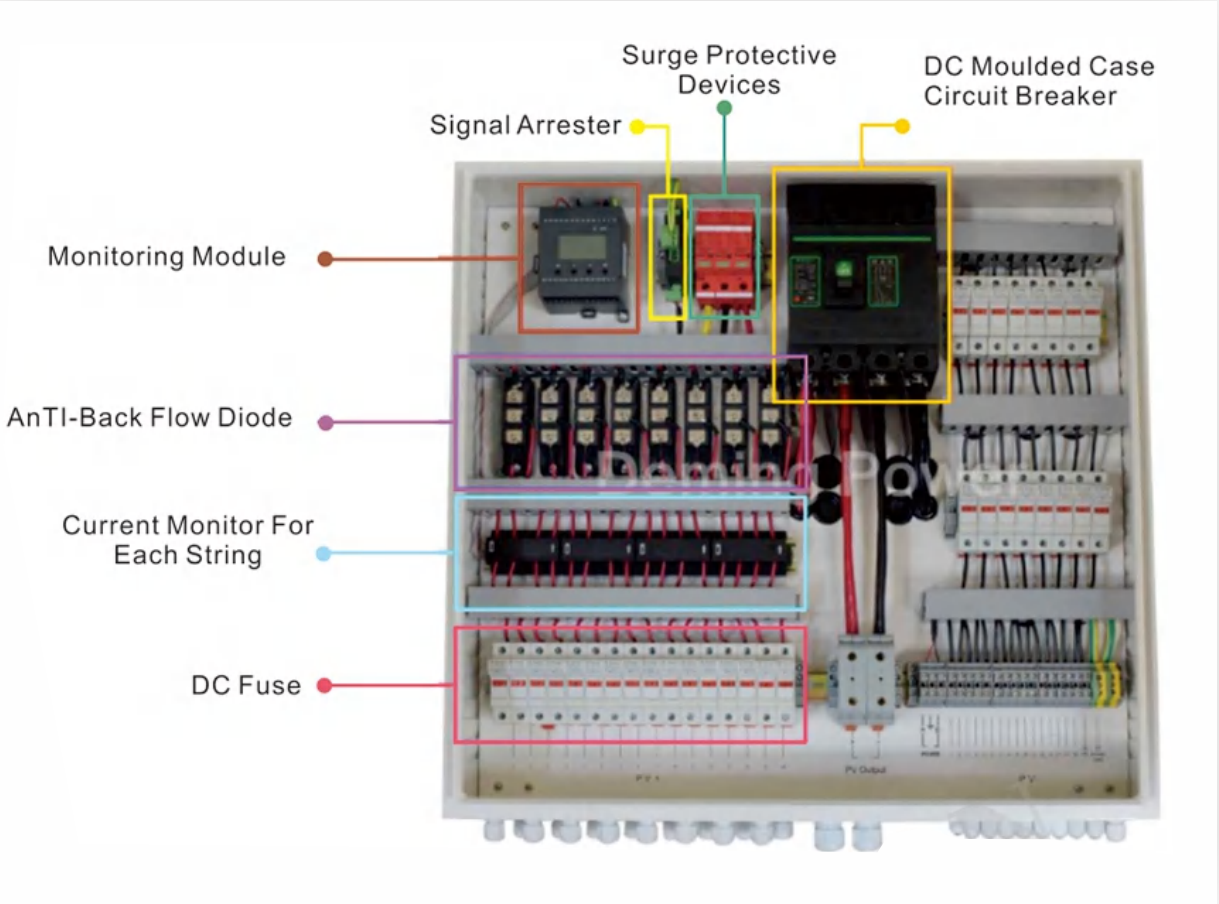
IP65 waterproof and dustproof design, no need to replace frequently. The sturdy shell is made of high-quality cold-roll steel sheets, which is moisture-proof and non-drip. In addition, it is impact-resistant and highly resistant to breakage, making your equipment well-protected in harsh environments.

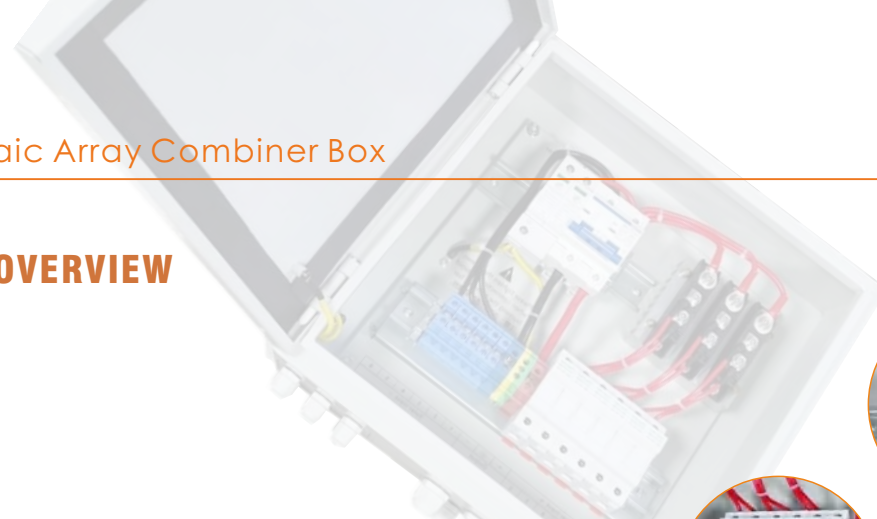
Easy installation and wiring:

Plug and play and pre-connected cables provide an easy solution for solar panel connection, saving at least 1-2 hours of manual wiring. Cassette PV manifolds can be installed on any regular surface and are provided with mounting clips that do not require a key to open and close the box. Built-in ground wire connector, can also be installed with ground wire.



PRODUCT DETAILS



PRODUCT OVERVIEW

2.Fuse is used as overload and short circuit protection in lighting circuit and circuit protection in control circuit. It is in series in the line, when the line or equipment short circuit or serious overload, the fuse in the first fuse, so that the line or electrical equipment from, play a protective role, it is a kind of protective electrical appliances



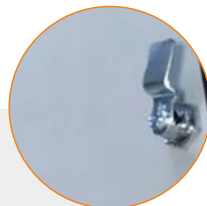
1.Surge protective device (SPD), also known as lightning arrester, is an electronic device that provides security protection for various electronic equipment, instruments and communication lines. When the electrical circuit or communication line suddenly produces peak current or voltage due to external interference, the surge protect or can conduct shunt in a very short time, so as to avoid the damage of surge to other equipment in the circuit.



3.High voltage insulation interface to ensure the safety of power connection of each group of solar panels.



4.Corrosion-resistant metal case ensures long term use in harsh environments. Lock design can avoid non-maintenance personnel illegal operation, reduce the operation of the whole hidden danger



5.Design with waterproof apron, can effectively prevent rainwater infiltration



PRODUCT FEATURES



Built-in Earthing Wire



Positive And Negative Poles Into The Wire



Waterproof Terminal

Combiner Box for Solar Panels: 6 String Configuration, Max current of single PV input array is 15A. Each String Continuous Duty Rated at 500 Vdc.

Single PV input array installs with high voltage fuse, its function over-load protection.

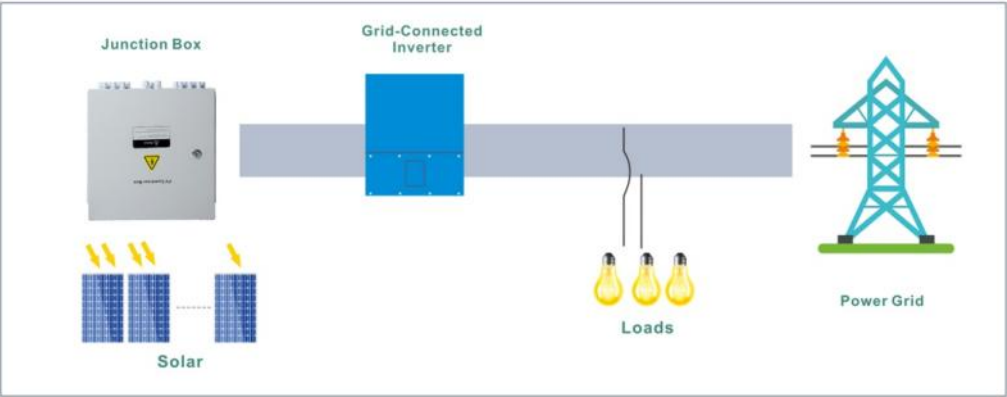
Anti-Backflow Diodes, Anti-Backflow & Anti-Reverse Protection.

Professional high voltage breaker controls output, with anti-circuit protection and make the system more reliable, safety.

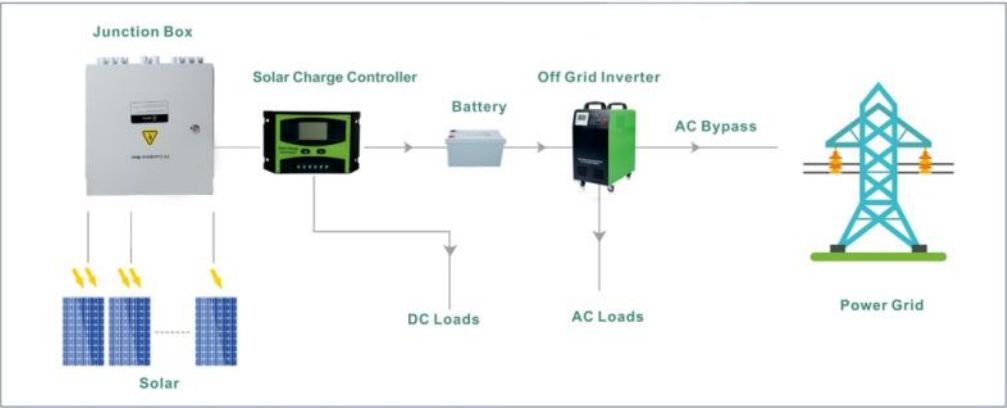
- This PV array combiner box includes Output Cable Glands & Safety Labels & Lightning/Surge Protection Module (1000V). PV Combiner Box



CONNECTION DIAGRAM



PV combiner box in off grid solar system



- 1. Photovoltaic (pv) column
- 2. Inverter
- 3. Measuring instrument
- 4. Photovoltaic bus box
- 5. Smart meters
- 6. Family load
- 7. The grid



PRODUCT SPECIFICATION

Model	DQ1700A4-01	DQ1700A6-01	DQ1700B8-01	DQ1700B10-01
	Input data			
Number of PV arrays inputs	4	6	8	10
Max single PV array current	10A			
Wire number of each PV array input	PG7、4mm²			
	Ouput data			
Number of output	1or 2			
Maximum output current	40A	60A in all (30A/output)	80A in all (40A/output)	100A in all (50A/output)
Wire number of esch output	PG16,8mm² for each	PG16,10mm² for each		PG16,12mm² for each
Maximum output voltage	800VDC			
DC output ciruit breaker	Have			
	Other data			
Protection	IP 65			
Temperature	-30℃~+60℃			
Product Weight	5.3/9.3kg	8.4/12.9kg	9.5/14.3kg	10.8/15.6kg
Product Dimensions(mm)	360*340*145		400*420*145	
Packing Size(mm)	470*450*255		530*510*255	
Cooling menthod	Natura cooling			
Surge protection	Have			
Ground wrie size	≥6mm²			

PRODUCT SIZE

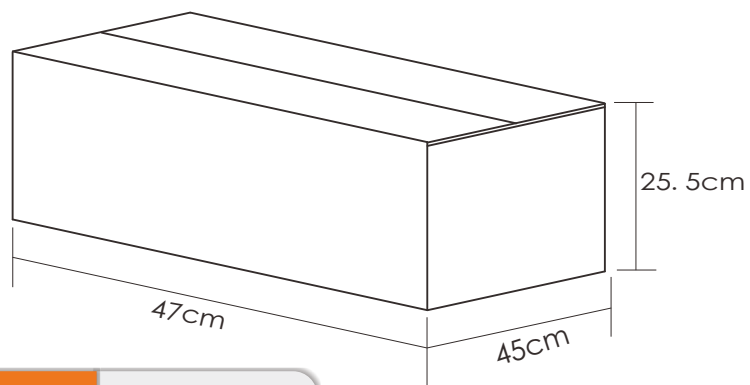


DQ1700A4-01 DQ1700A6-01

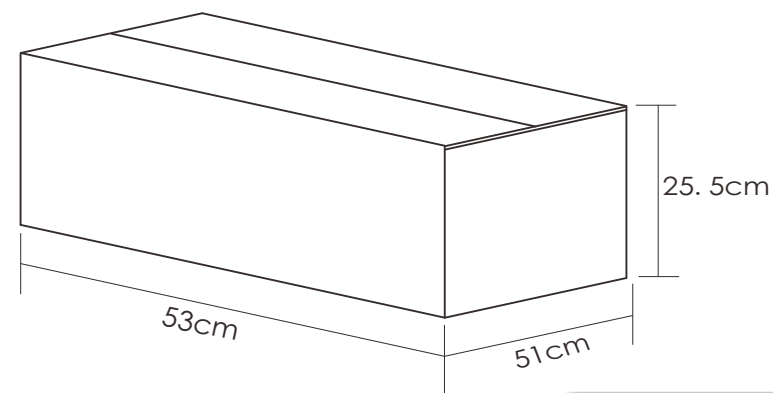


DQ1700B8-01 DQ1700B10-01

PACKAGE DIMENSIONS



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