



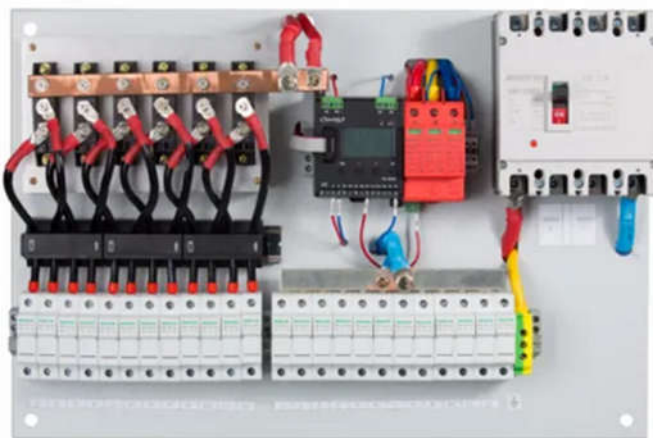
Cloverfour Renewable Energy Solutions

PV Combiner box and PV connection Cables

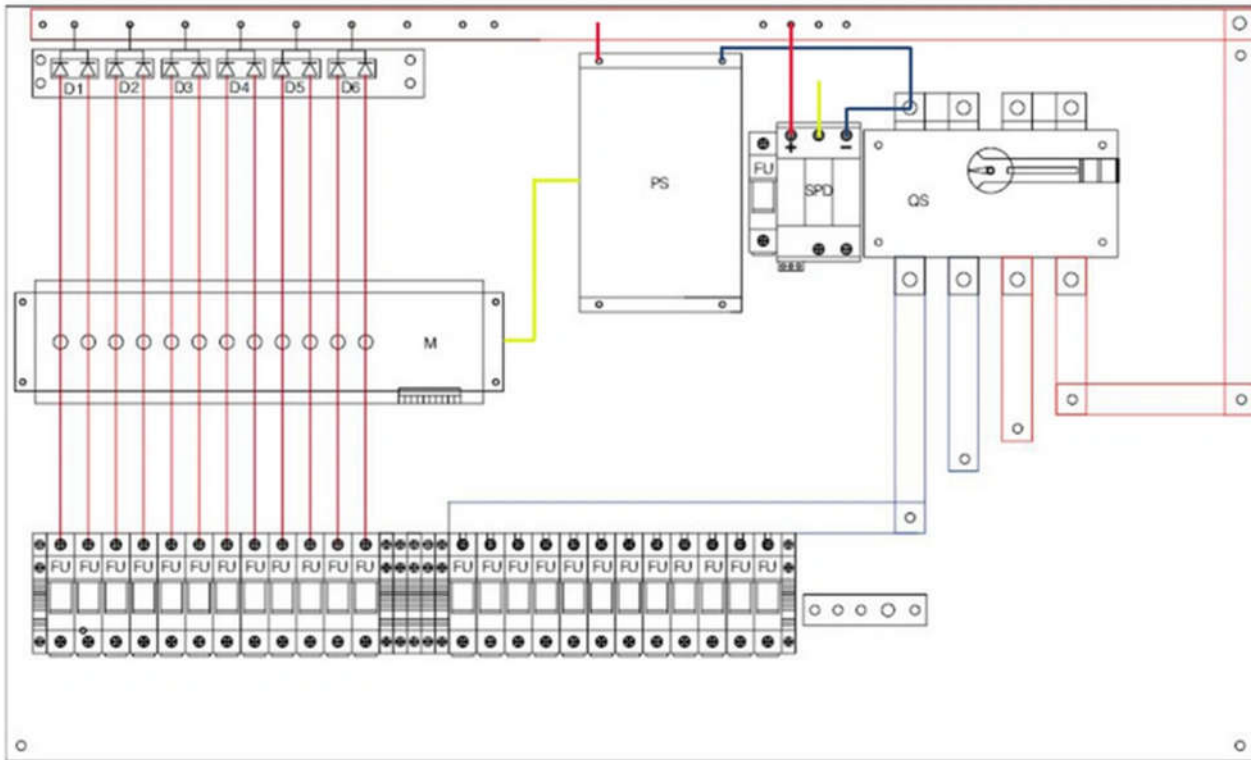
This is a 1000VDC PV String Combiner Box PVxx/1 with Anti Reverse Function

Solar DC Combiner Box with SPD and Fuse Description:

MSPV/xx-1 solar combiner box is suitable for inverter (MAX input voltage DC1000V, box with XX input channel and 1 output channel, to MPPT inverter). Box body is made of PVC (SS304 optional) engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade. Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment "CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.



Intelligent Combiner box



MC4 solar connectors and solar cables.



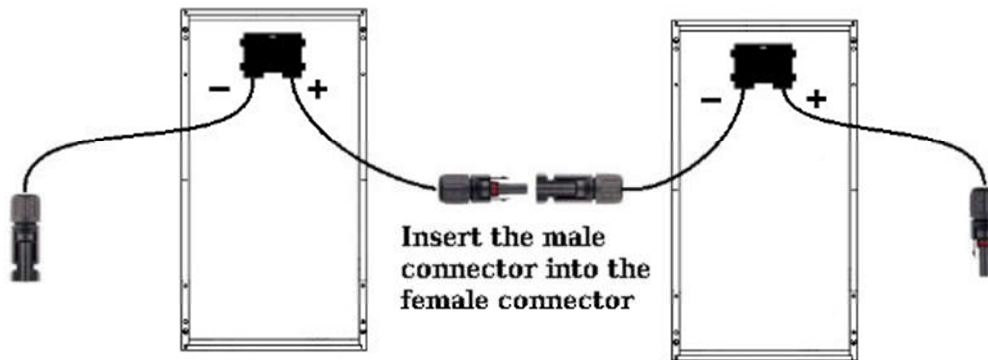
PT Vistana Insinyur Servis Co. reg. no (NPWP): 03.297.743.1-215.000

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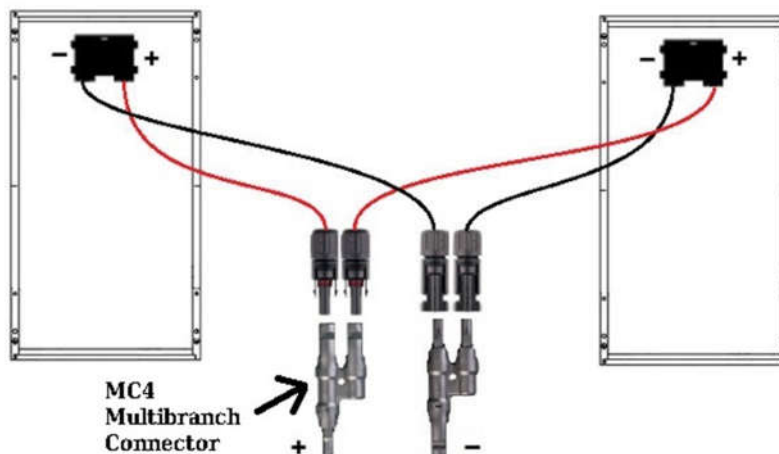
Wiring MC4 Equipped Solar Modules in Series

If you have two or more solar modules to wire in series, the MC4 connectors make it very simple. Take a look at the first module and you'll notice that it has two wires extending from the junction box. One wire is the DC positive (+) and the other is the DC negative (-). Generally, the female MC4 connector is associated with the positive lead and the male connector is associated with the negative lead. This may not always be the case, so it's always a good idea to look at the markings on the junction box or test the polarity with a digital voltmeter. A series connection is when you wire the modules together by connecting the positive lead on one module to the negative lead on another module. The male connector will snap directly into the female connector. Here's a simple diagram illustrating this.

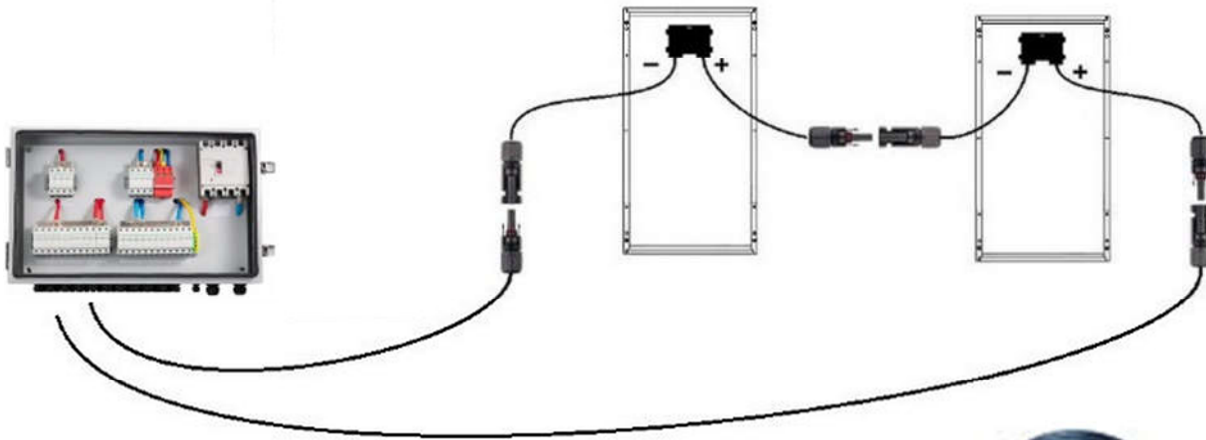


Wiring MC4 Equipped Solar Modules in Parallel

Parallel wiring requires the positive leads to be connected together and the negative leads to be connected together. This method will increase the current at max power (I_{mp}) while keeping the voltage constant. For example, let's say your modules are rated for 8 amps I_{mp} , and 18 volts V_{mp} . If you connect two of them in parallel, your total amps would be 16 amps I_{mp} and the voltage would remain at 18 volts V_{mp} . When wiring two or more modules in parallel, you will need some additional equipment. If you're only using two modules, the easiest method is to use MC4 multibranch connectors. You obviously can't connect two male connectors or two female connectors together, so we use the multibranch connectors to accomplish that. There are two different multibranch connectors. One type accepts two male MC4 connectors on the input side and has a male MC4 connector for its output. The other type accepts two female MC4 connectors and has a female MC4 connector for its output. Essentially, you've stepped down the number of wires from two positive and two negatives to one positive and one negative. Here's a diagram so that you can see what it's doing.



MC4 Extension cables



an MC4 extension cable has a male connector on one end and a female connector on the opposite end. They are available in many different lengths from 2m to 25m long.



Disconnecting MC4 Connectors

This is an MC4 disconnect tool. If for some reason you need to disconnect your MC4 cables, you will need one of these. You must insert the two extended posts on the end of the tool into the side of the female MC4 connector. This disengages the locking mechanism on the male connector and allows the two connectors to separate. The disconnect tool is sold as a set of two. Two tools are required if you ever need to disassemble the connectors. This is almost never necessary. Generally, one tool is all you will need.

