



## Charge two separate battery arrays with one midnite solar classic

What happens if two solar arrays are paralleled?

When two or more Classics are paralleled onto one SINGLE DC Source a blocking diode must be used between each Classic and the input source to isolate each Classic from the other ones. With Solar arrays you would have one array per Classic, this only applies to larger wind or hydro turbines.

What is a Midnite solar classic charge controller?

The MidNite Solar Classic charge controller conforms to UL 1741, safety for inverters, converters, controllers and interconnection system equipment for Use with distributed energy resources, second edition, May 7, 1999 with revisions through January 28, 2010 and AIA 22.2 of 107.1: 2001/09/01 ed: 3 (2006) RS232 Jack Pin Out Diagram 11

Does Midnite solar warranty third-party inverter components?

MidNite Solar will not warranty third-party inverter components used in MidNites pre-wired systems. Those components are warranted by the original manufacturer. MidNite Solar offers an extended warranty for all the Classic MPPT charge controllers.

Are Midnite solar breakers rated for continuous duty?

The NEC requires 1.56 times short circuit current (Isc) for PV over-current protection. This is reduced to 1.25 times when using a breaker rated for continuous duty. All MidNite Solar breakers are rated for continuous duty (100% rating). No de-rating is required for the input or output breakers when using MidNite Solar DC breakers.

What volts can a Midnite classic control?

The Classic is designed to regulate DC input from PV, and Approved Hydro and Wind turbines for other DC sources please contact MidNite Solar tech support. The Classic 150, 200 and 250 are designed to work with 12, 24, 36, 48, 60 and 72 volt battery banks. The Classic can be installed stand alone or as a multi-unit networked installation.

Do I need a de-rating if I use Midnite solar DC Breakers?

No de-rating is required for the input or output breakers when using MidNite Solar DC breakers. Solar panels are capable of producing more current than their name plate rating in extreme situations, so the safe minimum wire size should be selected for the PV array maximum short circuit current.

Are you asking if you can hook up two different midnight classic 250 (and solar panels) to the same single battery pack in the trailer? And then asking if would be better to ...

SOLAR mode is best suited for shaded or un-shaded PV arrays that are at least one nominal voltage above the



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battery voltage. For severe partial shading or PV arrays with nominal voltage ...

This bus bar is sufficient for two charge controllers; if you need three or more, then you need to look at the best way to handle the amperage. A dual Radian, for example, is actually four ...

One feature of the Whizbang Jr. is the ability to end an Absorb charge based on Ending Amps. In this mode, if the battery current falls below a programmable threshold for one ...

You really only need one whizbang since both controllers will be charging the same battery - so you will know everything going into and out of the battery. If you just use one ...

One can have as many independent charging sources running concurrently as they like provided they are programmed properly for the voltage of one's battery bank.

The MidNite Classic SL charge controller was designed as a SOLAR only charge controller. The Classic 150-SL, 200-SL and 250-SL are designed to work with 12, 24, 36, 48, 60 and 72 volt ...

Hi, question about adding a 2nd Classic 150. Does each Classic 150 need a separate PV array input or can I bring in 1 PV input from my combiner box and run that to both ...

I already confirmed VOC is sufficient for the 4series 1kw array and amperage is just fine at ~13. Is it as simple as wiring the second midnite SCC as a slave, adding comm ...

When two or more Classics are paralleled onto one SINGLE DC Source a blocking diode must be used between each Classic and the input source to isolate each Classic from the other ones.

With Solar arrays you would have one array per Classic, this only applies to larger wind or hydro turbines. I am going to wire one array of 12 panels to each charge ...

I'm helping a friend with his off-grid plans and he wants to use two (2) Midnite Classic 150 in parallel to charge a common bank. I've scoured the web and found instances of attempts on it ...



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Web: <https://www.economieopgaven.nl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346



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