



# Battle born lithium 100ah

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At Battle Born Batteries, we bring revolutionary, reliable green energy to ...

**DISCONTINUED:** Battle Born BB10012H-1KIT (replaces BB10012), heated 12V deep cycle Lithium-ion battery, 100 Ah, 3000+ cycles, 8+2 years warranty

This battery replaces the unheated BB10012: It is identical in all respects, and by simply not connecting the heating wire it will behave just like an unheated BB10012. Also see our Finding Happiness with Lithium-Ion article, explaining the care and feeding of these batteries.

The warranty conditions for Battle Born batteries require the use of their CSL500 surge limiter with their batteries, when used with an inverter equal to or larger than 3,500 Watt or DC motors or air-conditioners. Warranty will be denied in cases where the battery is damaged while using such an inverter, A/C, or motor without a CSL500. This is regardless of the overall battery bank Voltage (12/24/48 Volt) or number of batteries connected in parallel. For multiple inverters over 3,500 Watt one CLS500 can be used up to 8,000 Watt total. For inverters 8,000 Watt or greater, one CSL500 for each inverter is needed.

Just 1/3 the weight of lead-acid, zero maintenance, and thousands more cycles vs. lead-acid. Battle Born Batteries offer an economic alternative when space and weight matter, such as for boat trolling motors and RV applications.

Battle Born lithium-ion batteries are true deep-cycle batteries, they can repeatedly be discharged a full 100% without damage. The battery has a build-in battery management system (BMS). The BMS allows them to be charged with regular solar PV charge controllers, with the same settings as for any other sealed battery (such as AGM batteries). The BMS also takes care of protecting the batteries from over- and under-charge, low Voltage disconnect, over-current, and automatic balancing of the cells.

Charge settings for Battle Born batteries:

The maximum discharge rate is 100 Amp continuous, 200 Amp for 30 seconds, and about 500 Amp for 1/2 second for cranking and such.

Battle Born batteries can be connected in series and parallel to increase the bank Voltage and Ah rating. For example, two BB10012 batteries in series will make a 24 Volt / 100 Ah battery bank. Two in series and two in parallel will make for 24 Volt / 200 Ah etc. Any number of batteries can be connected in series/parallel, as long as overall battery bank Voltage is 48V or less (so no more than 4 in series). Parallel strings of batteries



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will increase the charge and discharge rates (i.e. 200A for two parallel strings etc.). Ask us if you have any questions about properly sizing a battery bank.

Battle Born batteries use LiFePO<sub>4</sub> chemistry (Lithium-Iron-Phosphate). This is very stable and is not sensitive to spontaneous combustion, in comparison to laptop and cell-phone lithium-ion batteries (which use Lithium-Cobalt-Phosphate chemistry). The cells have build-in protection for over-pressure, over-temperature, contain a fire-retardant in the electrolyte and casing, and have a stainless steel jacket. These are very safe batteries!

Because lithium-ion batteries can be discharged to 100% DOD, and this can be done for more cycles, a smaller battery bank can suffice vs. lead-acid. Since there is no off-gassing these batteries can be mounted indoors.

Contact us for free full report

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