## Battery size calculator for inverter



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Ampere (A) is the SI base unit of the electrical current while ampere-hour or amp-hour (Ah) denotes the electric current produced or consumed in an hour. We use amp-hour to measure the capacity of a battery. We also use watt-hour to measure battery capacity.

You can calculate the battery size for inverters using the formula B = P x t / Vdc, where B is the battery capacity in ampere-hour, P is the inverter's power rating, t is the duration of power supply in hours, and Vdc is the DC voltage of the inverter.

You can calculate the run-time using the formula,  $t = (amp-hour \times V)/P$ , where amp-hour is the battery's maximum capacity, V is the voltage of the power supply, and P is the appliance's wattage.

Our tool has many uses -- whether you want to know how much longer your drone will fly after already using it for a few hours, or if you want to compare lead-acid and lithium-ion batteries in terms of their battery capacity, the battery size calculator does it all!

? Lithium-ion batteries have a higher energy density than lead-acid batteries. So, we can store more energy in a lithium-ion battery using the same physical space. Therefore, a lithium-ion battery can supply more power than a lead-acid battery of the same size!

? You shouldn't discharge lead-acid and lithium-ion batteries completely. Discharge lead-acid batteries up to 50% and lithium-ion batteries up to 20% to avoid any irreversible damage and for improved cell life.

? Learn more about the units of amperes and voltage combined together in our kVA calculator. There, you''ll also understand the relationship between the kilovolt-ampere (kVA) and kilowatt (kW) units of power.

Read on to find answers to some of the questions on a battery's capacity and charging. Also, send us your questions on battery capacity in the comment box displayed when you rate the calculator.

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