

Re: How to calculate a battery capacity

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- *From:* chuck <nospam@xxxxxxxxxxx>
 - *Date:* Mon, 18 Sep 2006 15:36:28 -0400
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Puckdropper wrote:

"Simon Dice" <bitxbit@xxxxxxxxxxx> wrote in <news:1158603177.343083.179580@i3g2000cwc.googlegroups.com>:

I'm working on a project in wich I need to have a system running 24hrs a day , power supply will be solar panels feeding a battery. Can any one share with me formulas on how to calculate de Amp/hr for the battery and the power of the solar panel?
Systems will consume average 80watts and need to keep running on a few cloudy days as well.
Thanks for the assistance!

Watts = Amps * Voltage

The Amp/hr rating of the battery (I think) says that if the device draws x amount of amps, the charge will last this many hours.

This should get you started.

Puckdropper

The amp-hour rating is usually based on a fairly "low" rate of discharge. The greater the discharge rate, the lower the battery's capacity. Lead-acid batteries are often rated at a stated discharge rate. Do a search on "peukert" for more information on this relationship.

You should also be able to find some sites with information on designing solar charging systems.

Chuck

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