



# Arduino charging nimh batteries solar panel

How do you charge a Ni-MH battery?

Build a simple solar powered battery charger for Ni-MH batteries. You could buy a solar powered battery charger, but it's cheaper and more fun to make one yourself. If you're like me and you like to spend a lot of time in the backcountry, this means you don't have any way to charge you devices.

Can a 12V solar panel charge a NiMH battery?

I have been working on a NiMH battery pack (7.2V / 2100mAh) charging circuit powered by a 12V solar panel. With some research I found that charging NiMH takes different forms by measuring change in voltage, change in temperature, voltage across the battery.

Should I use a lipo solar charger for a 3s NiMH battery?

Since charge and discharge voltages of 3s NiMH battery are almost identical to lipo, I thought using a lipo solar charger would be ideal. I chose CN3065 based charger bought from dear friend in China and when testing theory all worked out perfectly.

Is there a charge control for a solar powered Arduino?

No charge control worries there! This is pretty thoroughly explored in Nick Gammon's fun solar powered Arduino tutorial. NiMH can be easily be charged at C/2, so no problem there for a 900mAh battery pack at the currents you have. GP call this fast charging.

What is a good battery charger for a Ni MH battery?

For Ni-MH, Panasonic and Energizer have both made excellent materials available. In order to charge a battery fast (in under a few hours) a microcontroller is normally used to monitor both the battery voltage and temperature. If voltage begins to drop, then the battery has reached a state of overcharge and the charger shuts down.

Can a Li-ion Charger charge NiMH?

At higher charging currents, the end voltage is higher so in that case the cells will not charge fully when charging stops at 4.2V. That aside: voltage is not a good way of determining end of charge for NiMH, and a Li-ion charger can't charge NiMH the way they should be charged.



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