

# Re: Charging A Lead Acid Battery

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.basics/2008-02/msg00359.html>

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- *From:* redbelly <[redbelly98@xxxxxxxxxx](mailto:redbelly98@xxxxxxxxxx)>
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On Feb 13, 9:09 am, James Beck <[j...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:j...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote:

In article <6194982a-5fc6-406e-b08d-dd15013ba985@y5g2000hsf.googlegroups.com>, redbell...@xxxxxxxxxx says...

Why is your simple charger so complicated? Why not use a 12 volt DC wall transformer and 13 ohm resistor (5 watt)? You get 540mA when the battery is low at 5 volts, and about 400mA as the battery voltage rises to 7 volts.

-Bill

If you forget to turn off a charger like that, it will seriously overcharge a 6V battery! On the other hand Ed's charger will not do that

It won't?

It should continue to charge the battery up to the wall wart voltage, which is still too high if you leave it plugged in too long.

I would, and do, just use a CV source that is set to the float voltage of the battery. Pick a regulator that has over temp and current limiting and let it float.

Jim

What about all the voltage drops between the wall wart and battery:

1 to 1.5V drop-out voltage of regulator

1.2-1.3V between regulator "out" and "adj" pins (across 2.5R resistor)

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0.6–0.7V diode drop across 1N400x

Mark

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