

Re: Generic AC USB chargers – Ipods and others

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- *From:* mpm <mpmillard@xxxxxxx>
 - *Date:* Mon, 17 Mar 2008 05:10:35 –0700 (PDT)
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On Mar 16, 4:01ýpm, George <gh424NO824S...@xxxxxxx> wrote:

PhattyMo says...

ý> With my 2nd gen Nano,it won't charge no matter what I
ý> do. There's a 'trick' to getting some of the others to
ý> work from a 'non–smart' charger that involves a couple
ý> resistors on the data lines,to either pull them high,or
ý> low. This didn't work on my iPod,I guess it needs an
ý> actual USB host controller to negotiate with? I dunno.

On further research, it may have something to do with this:

http://www.usb.org/developers/devclass_docs/batt_charging_1_0.zip

That's a new standard for USB charging published in March,
2007. ýIt now says that a dumb charger should have the data
lines shorted together. ýGo figure.

So maybe the old and new ipods look for different things.
And I guess it's also possible that ipods really want a
formal connection to be established anyway.

I just wish I could find an authoritative explanation of
what's required. ýI guess in time everything will comply
with the new standard, but in the meantime it would be nice
to know what the deal is for each ipod generation.

Interesting. Thanks.

I received an iPod nano (video) as a Christmas gift. (My first iPod,
but not my first MP3 player.) Love it.

I was wondering what the charge current was (would be) if the device
did not enumerate on the USB bus? For example, if I just wanted to re–
charge the battery on a PC that did not have the iTunes software
installed. I discovered that in that case, the iPod nano will just
enumerate as an external hard drive, so I assume the 100mA "pre–
enumeration" limit would not necessarily have to be imposed (since the

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device was enumerated)? That said, for all I know the charger function may never need more than 100mA anyway... But I was curious about that....

–mpm

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