

Re: Power supplies in parallel for more current/same voltage?

Source: <http://sci.tech-archive.net/Archive/sci.electronics.misc/2005-11/msg00168.html>

- *From:* "Ken Taylor" <ken123@xxxxxxxxxx>
 - *Date:* Tue, 15 Nov 2005 09:48:11 +1300
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"Gerard Bok" <bok118@xxxxxxxxxx> wrote in message

news:4378e7d7.5796401@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

> On Tue, 15 Nov 2005 07:46:39 +1300, "Ken Taylor"

> <ken123@xxxxxxxxxx> wrote:

>

>>"Gerard Bok" <bok118@xxxxxxxxxx> wrote in message

>>news:4378913b.11322538@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

>>> On Sun, 13 Nov 2005 18:27:45 -0800, "Daniel Morrow"

>>> <videoman@xxxxxxxxxx> wrote:

>>>

>>>>Hi everyone! I am trying to find a cheap way I can increase the

>>>>current capacity of a power supply by installing fuses to each output

>>>>of multiple universal power supplies, setting each polarity

>>>>correctly, setting each voltage correctly, but in other words combine

>>>>power supplies to get up to 3 amps or more available from the

>>>>parallel power supplies, to drive digital cameras. I have researched

>>>>power supply providers and have found no usable/cheap enough power

>>>>supplies (those dedicated power supplies are very expensive –

>>>>

>>> By far the cheapest solution is to buy a single 3 Amp supply.

>>>

>>> Be very VERY carefull: it's not uncommon for 3 Amp supplies to

>>> supply a much higher output voltage than the label says.

>>>

>>> Wich may well result in a 'final flash' from your camera :-)

>

>>What is so unusual about a 3A supply that it's output isn't specified

>>correctly?

>

> Some supplies are stabilized. Some supplies provide the stated

> output voltage (more or less) under the specified load.

> And under no or low load a voltage that is much higher.

> A digital camera connected to a PSU is unlikely to draw 3 Amps

> all the time :-)

>

> Also: some appliances take their input voltage to an internal

> stabilizer. While others just supply it to their chips.

> Without good knowledge of both the PSU and the camera, it is easy

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> to blow the camera.
>
> --
> Kind regards,
> Gerard Bok

Um, yeah, well I was kinda assuming that by 3A a supply isn't going to be unregulated, but it's a fair comment. Pre-morning tea. :-)

Given that the OP is only after about 3A total, a single switch-mode (hence regulated and stabilized) wall-wart/power-pack is a good option and certainly better than trying to connect several up in parallel.

Cheers.

Ken

• **Follow-Ups:**

- ◆ **[Re: Power supplies in parallel for more current/same voltage?](#)**
◇ From: Daniel Morrow

• **References:**

- ◆ **[Power supplies in parallel for more current/same voltage?](#)**
◇ From: Daniel Morrow
- ◆ **[Re: Power supplies in parallel for more current/same voltage?](#)**
◇ From: Gerard Bok
- ◆ **[Re: Power supplies in parallel for more current/same voltage?](#)**
◇ From: Ken Taylor
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