

# Re: Resistor vs transformer

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- *From:* "lemonjuice" <exskimos@xxxxxxxxxxxx>
  - *Date:* 8 Feb 2006 04:37:27 -0800
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On Wed, 08 Feb 2006 06:09:44 -0600, John Fields  
<jfields@xxxxxxxxxxxxxxxxxxxx> wrote:

On Wed, 08 Feb 2006 09:26:30 +0100, Weinberger Hans  
<weinberger@xxxxxxx> wrote:

On 7 Feb 2006 13:45:00 -0800, bill.sloman@xxxxxxx wrote:

Weinberger Hans wrote:

On 7 Feb 2006 06:49:00 -0800,  
cs\_posting@xxxxxxxxxxxx wrote:

Weinberger Hans wrote:

Thanks and  
all those  
who gave  
"useful"  
replies.  
Its a  
wireless  
receiver  
unit which  
calls the fire  
department  
in case  
of a fire.

You probably need to figure  
out how it converts 120v to  
whatever it

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needs. It may be that you could rip out its power supply and substitute one for your line voltage.

Is that time/cost efficient?

No. Get a transformer with a dual 115V+115V primary, connect the primaries in series, and hook your fire alarm across one of the primaries. Ignore the secondary windings.

Cost goes by size, but 6VA transformers have rotten regulation. The 2002 Farnell catalogue lists a 12VA part (stock number 159-591) which cost 6.58 euro and would presumably do the job, You'd have to put the transformer in a box to protect the outside world.

Farnell have a whole range of boxes – I'd probably go for the 525-625 (which cost another 5.65 euro back in 2002), and mount the transformer on the lid. You might be able to get cute and mount the fire-detector on the other side of the same lid (leaving it outside the box).

This ought to work – the transformer will run a bit warm, but it would run warm without any load at all.

I easily/cheaply find dual 23