

## Re: Resistor vs transformer

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- *From:* "lemonjuice" <[exskimos@xxxxxxxxxxxxx](mailto:exskimos@xxxxxxxxxxxxx)>
  - *Date:* 8 Feb 2006 07:32:53 -0800
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Haven't thoroughly examined your analysis as I got a tight work schedule here ... but I'll be back to you tomorrow morning. In the meantime ... the secondary is left unconnected in the application so flux induced there, currents flowing there have nothing to do with the problem.

Then you are assuming wire radius and type is constant which isn't necessarily true for different transformer types and that is going to vary all the impedances, flux you have calculated.

You also assume A 240V has to have twice the windings of the 120V and that depends on what the transformer is designed to do. It doesn't always have to be like that, especially if you are considering different transformer types.

Even across the same types you could use a 240V dual to whatever voltage you want with a 120V to a lower voltage and you'd have the same resistance of the primaries.

I see you mentioning regulation. It only makes sense to talk about that if you have an output voltage . In this case our secondary is left unconnected.

Regards

lemonjuice

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