

Is this ~150W 12V dc-dc supply realistic?

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- *From:* "MrPerfectionest" <mrperfectionest@xxxxxxxxxx>
 - *Date:* 31 Mar 2005 06:07:26 -0800
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A guy on mp3car.com is offering up a very compact 12V supply and I am wondering if the claims he is making are legit. I had contemplated a similar supply myself but my knowledge was limited to boost / buck configurations and the high cost of low esr caps to manage output ripple kept me from taking the idea to fruition. Did I severely underestimate the power of a full/half bridge or forward converter setup? He is being mum on what the topology is but from the looks of it, it appears full bridge to me. What he has posted about it:

>I just got done designing a new DC-DC power supply that takes in 6-20 volts and puts out 12V on the output. With the output between 10-16 volts the output load can be 10 amps sustained, 13 amps peak. It is optimized for car use and will survive cranking no problem with a 10 amp load.

>It measures 1.9" by 3.5" by 1.2" and has 4 standard 0.25 inch automotive faston connectors.

>There is a power on LED and a On/Off Jumper.

>It can be ordered as a fixed output supply, or as a supply with an output range adjustable by a small pot.

>Sounds too good to be true? It's real. I even surprised myself when I measured my first sample and I measured 97.5% efficiency with a 85-watt load!

>The supply is 95+ percent efficient over the 8-15 volt range.

>http://www.mpegbox.net/DSX12V/DSX12V_2.jpg

>http://www.mpegbox.net/DSX12V/DSX12V_top.jpg

Thanks

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- *Follow-Ups:*

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◆ **Re: Is this ~150W 12V dc-dc supply realistic?**

◇ From: Ted Edwards

◆ **Re: Is this ~150W 12V dc-dc supply realistic?**

◇ From: Fritz Schlunder

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- Next by Date: **Re: How to connect wall power to PCB?**
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