

# Re: combining 2 power supplies

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.repair/2006-03/msg01904.html>

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  - *Date:* 29 Mar 2006 08:46:09 -0500
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"crazy frog" <[dingding@xxxxxxxxxxxxxxxxx](mailto:dingding@xxxxxxxxxxxxxxxxx)> writes:

thats what i read from silicon chip and have  
done so and it works fine.  
im using a 200w one to power a 16/ch mixer  
i have built in the last 2 years.  
im using a nother one power my modem  
and network hub and some fans.

[http://www.formfactors.org/developer%5Cspecs%5CATX12V\\_PSDG\\_2\\_2\\_public\\_br2.pdf](http://www.formfactors.org/developer%5Cspecs%5CATX12V_PSDG_2_2_public_br2.pdf)

This appears to be Intel's ATX specifications. It is not clear what minimum load is required for proper regulation. Under "DC Voltage Regulation", it says:

"The DC output voltages shall remain within the regulation ranges shown in Table 2 when measured at the load end of the output connectors under all line, load, and environmental conditions."

Later on in: "No Load Operation", it says:

"No damage or hazardous condition should occur with all the DC output connectors disconnected from the load. The power supply may latch into the shutdown state."

Loading examples never go below 1 A on +12, 0.3 A on +5, 0.5 A on +3.3.

So, it shouldn't blow up under very light or no load conditions, but the exact values needed for proper operation may not be obvious.

And, the existence of this specification document doesn't necessarily imply that all Far East ATX power supplies are fully compliant.

--- sam | Sci.Electronics.Repair FAQ: <http://www.repairfaq.org/>  
Repair | Main Table of Contents: <http://www.repairfaq.org/REPAIR/>  
+Lasers | Sam's Laser FAQ: <http://www.repairfaq.org/sam/lasersam.htm>  
| Mirror Sites: [http://www.repairfaq.org/REPAIR/F\\_mirror.html](http://www.repairfaq.org/REPAIR/F_mirror.html)

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