

Comments on Draft 1 Version 2.0 ENERGY STAR External Power Supplies Specification

Submitted by:

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Date:

October 19, 2007

Comments:

Dear Robin,

We have received the EPS draft 1 version, After detail study would give some comment. We, Jentec, is a power adapter company we design, manufacture in the power range 5w to 36W with The monthly Qty around 1000K/m, they all Efficiency level IV compliance products. For your new version Draft 1 the most impact for us is the Efficiency increasing. Compare the current level **IV** and new proposal it is a 6% higher.

This efficiency increasing is very difficult in the low cost power range, I have attached our current model (I have changed my model name). They all almost need re-design:

			115V/60HZ		230V/50HZ		Current IV		2008 Draft 1IV	
Model	O/P	O/P Wattage	Efficiency%	No Load Ψ	Efficiency%	No Load Ψ	Efficiency%	No Load Ψ	Efficiency%	No Load Ψ
6W	5V/1.2A	6	73%	0.19	71%	0.25	66%	0.5	73%	0.3
10w	5V/2A	10	73%	0.2	72%	0.24	71%	0.5	77%	0.3
7.5w	7.5V/1A	7.5	73%	0.36			68%	0.5	75%	0.3
11.25w	7.5V/1.5A	11.25	74%	0.36			72%	0.5	78%	0.3
12.5w	5V/2.5A	12.5	76%	0.27	76%	0.2	73%	0.5	79%	0.3
15w	5V/3A	15	77%	0.2	77%	0.2	74%	0.5	80%	0.3
19.8w	9V/2.2A	19.8	81%	0.16			77%	0.5	82%	0.3
24w	12V/2A	24	82%	0.19	80%	0.28	79%	0.5	84%	0.3
12w	12V/1A	12	79%	0.29	78%	0.24	72%	0.5	78%	0.3
18w	12V/1.5A	18	81%	0.22	80%	0.2	76%	0.5	82%	0.3
15w	12V/1.25A	15	81%	0.18	82%	0.19	74%	0.5	80%	0.3
36w	12V/3A	36	83%	0.21	83%	0.28	82%	0.5	87%	0.3

The impact reasons are:

- 1, The output cable normally in market they requested 6 feet long**
- 2, Need a in-rush current limiter build in for the power turn on**
- 3, Low cost design**
- 4, From the data we can see only 2 models are OK for the efficiency draft 1, they all 12V output and low output current , this is different from your survey data they all OK for the new regulation.**

Summary of our suggestion:

This is a big impact for us, we need increase cost like larger wire gauge, higher driver capability IC, Synchronous rectifier techniques implement
And reapply the FCC, Safety they all a lot money and we can not ask customer to spent more money to buy ,
Specially on the lower power range
Thank you for your give us the opportunity to comment

Best Regards,

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