

Thanks for your response.

We made various rating of external power adapters measurement that all of them fail to comply with Energy Star draft specification, test data as below for your reference. These adapters maybe in used for monitors or TV set and maybe some of them may comply with Tier 1/2 of Monitor Energy Star specification version 4 if tested together with whole set of monitor. So my concern is my customer may question us why the external power adapter which in used together with monitor is not Energy Star compliance but Monitor is? So what my recommendation is to further specify that all of products in using external power supply intend to be Energy Star list must using those Energy Star list external power adapter/supply. This maybe not so urgent to be specified right away, but can be specified after the adapter specification is finalized and several external adapters are Energy Star list.

[Attached Excel spreadsheet of Test Data]

**Adaptor: 120W Output: 24Vdc,
5.0A**

Rated Output Current		Input Power (W)	DC Output Current (A)	DC Output Voltage (V)	DC Output power (W)	efficiency	Specification	Result
Ratio	(A)							
No load	0.000	0.5	--	--	--	--	<= 1	Pass
25%	1.2500	38.3	1.25	24.2	30.250	78.98%	--	--
50%	2.5000	70.98	2.5	24.2	60.500	85.23%	--	--
75%	3.7500	103.53	3.75	24.1	90.375	87.29%	--	--
100%	5.0000	138.2	5	24.05	120.250	87.02%	--	--
Average		--			--	84.63%	> 0.850	Fail

**Adaptor: 90W Output: 20Vdc,
4.5A**

Rated Output Current		Input Power (W)	DC Output Current (A)	DC Output Voltage (V)	DC Output power (W)	efficiency	Specification	Result
Ratio	(A)							
No load	0.000	0.5	--	--	--	--	<= 1	Pass
25%	1,13	28.28	1.13	20.2	22.800	80.71%	--	--
50%	2.2500	53.8	2.25	20.15	45.300	84.27%	--	--
75%	3.3750	79.8	3.38	20.12	68.000	85.23%	--	--
100%	4.5000	107	4.5	20.08	90.400	84.43%	--	--
Average		--			--	83.66%	> 0.850	Fail

**Adaptor: 40W Output: 12Vdc,
3.33A**

Rated Output Current		Input Power (W)	DC Output Current (A)	DC Output Voltage (V)	DC Output power (W)	efficiency	Specification	Result
Ratio	(A)							
No load	0.000	0.3	--	--	--	--	<= 0.5	Pass
25%	0.8325	12.45	0.832	12.078	10.049	80.71%	--	--
50%	1.6650	24.01	1.665	12.063	20.085	83.65%	--	--
75%	2.4975	35.86	2.498	12.049	30.098	83.93%	--	--
100%	3.3300	47.56	3.33	12.047	40.117	84.35%	--	--
Average		--	--	--	--	83.16%	> 0.832	Fail

Adapter: 50W, 19Vdc, 2.64A

Rated Output Current		Input Power (W)	DC Output Current (A)	DC Output Voltage (V)	DC Output power (W)	efficiency	Specification	Result
Ratio	(A)							
No load	0.000	0.485	--	--	--	--	<= 0.75	Pass
25%	0.6600	16.07	0.66	19.231	12.692	78.98%	--	--
50%	1.3200	30.04	1.32	19.201	25.345	84.37%	--	--
75%	1.9800	43.74	1.98	19.17	37.957	86.78%	--	--
100%	2.6400	57.66	2.64	19.135	50.516	87.61%	--	--
Average		--	--	--	--	84.44%	> 0.852	Fail