

80 PLUS Verification and Testing Report

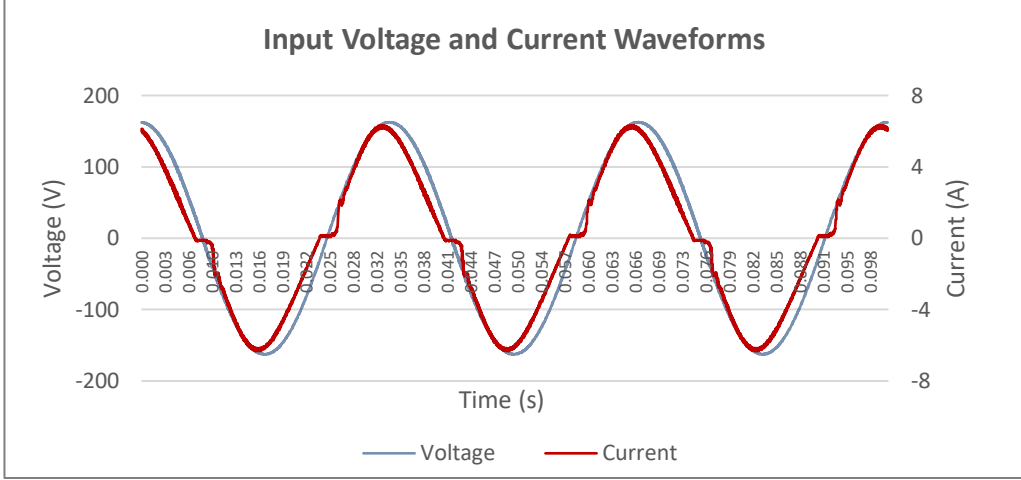
TYPICAL EFFICIENCY (50% Load):	93.14%
AVERAGE EFFICIENCY :	85.98%
AVERAGE STANDBY EFFICIENCY :	81.88%
80 PLUS COMPLIANT:	Platinum



ID Number	8116
Manufacturer	ASUS
Model Number	TUF-GAMING-850P
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	2/16/26

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10-6	Amps
Input Frequency	47-63	Hz
Rated Output Power	850	Watts

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



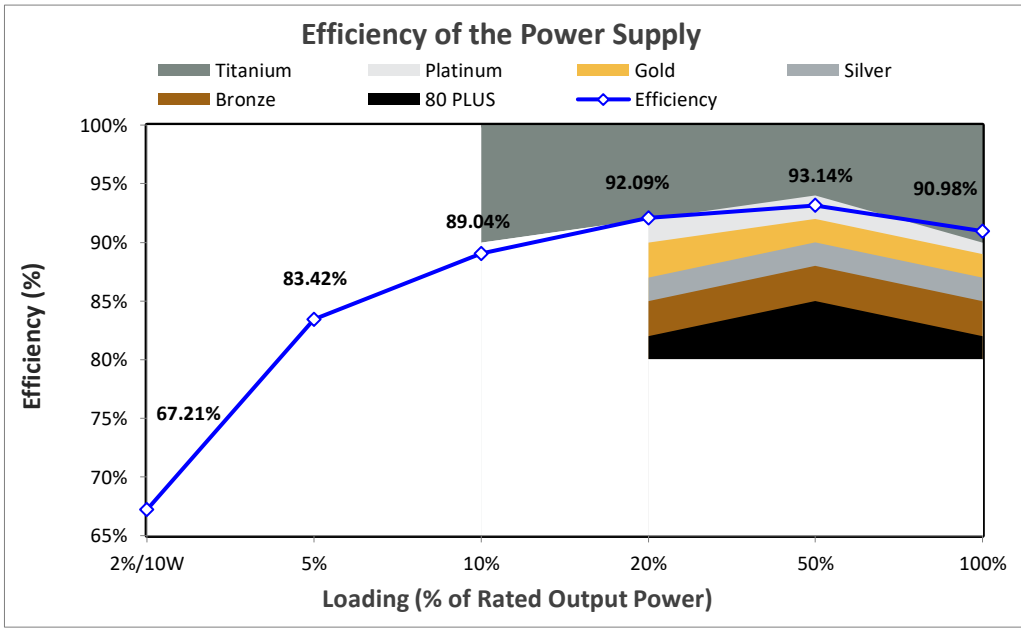
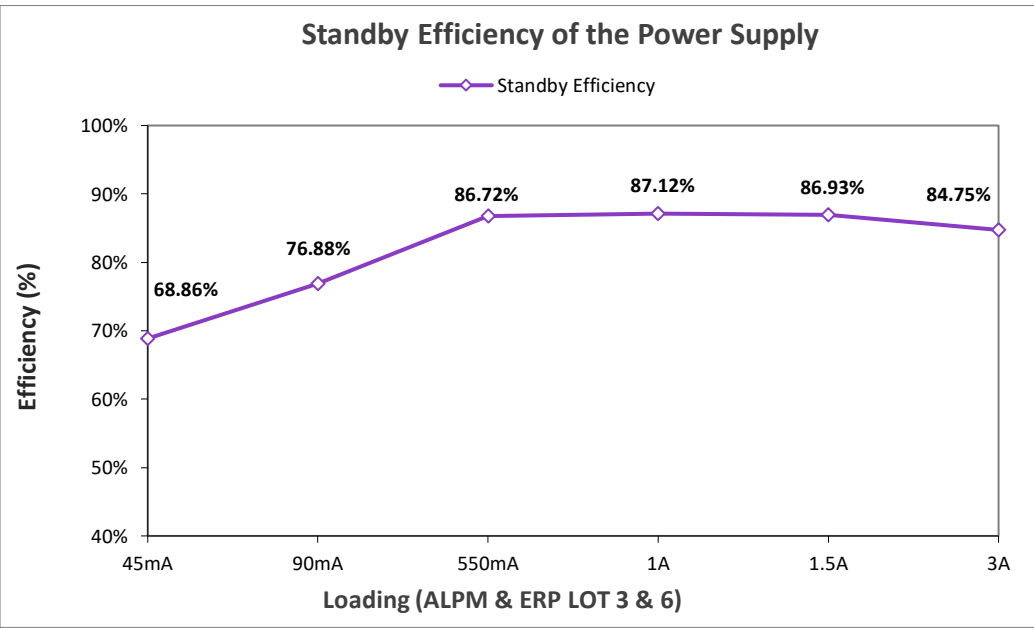
Input AC Current Waveform (ITHD = 13.04%, 50% Load)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.132	0.5467	29.94	0%	8.30	No-Load						
0.266	0.8375	33.66	2%/10W	25.59	12.132/1.214	11.964/0.005	3.298/0.258	5.097/0.257	5.183/0.051	17.20	67.21%
0.480	0.9331	27.81	5%	51.52	12.129/3.032	11.965/0.013	3.298/0.644	5.097/0.644	5.178/0.128	42.98	83.42%
0.883	0.9508	27.17	10%	96.50	12.126/6.062	11.966/0.026	3.297/1.286	5.096/1.287	5.173/0.257	85.92	89.04%
1.687	0.9614	23.60	20%	186.52	12.120/12.122	11.969/0.051	3.296/2.574	5.095/2.575	5.163/0.513	171.77	92.09%
4.064	0.9854	13.04	50%	460.49	12.105/30.301	11.978/0.128	3.295/6.440	5.095/6.441	5.133/1.284	428.91	93.14%
8.249	0.9918	9.82	100%	940.90	12.081/60.596	11.994/0.257	3.292/12.880	5.095/12.882	5.081/2.566	856.02	90.98%

Note: Efficiency data was obtained from Sample 1 (Serial Number: N/A)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Standby Efficiency
					5VSB	Vampire Load		
0.088	0.0062	2.60	0mA	0.06		5.185/0.045	0.23	68.86%
0.088	0.0334	10.23	45mA	0.34		5.184/0.090	0.47	76.88%
0.089	0.0593	17.27	90mA	0.61		5.178/0.550	2.85	86.72%
0.112	0.2543	58.00	550mA	3.28		5.172/1.000	5.17	87.12%
0.146	0.3539	72.25	1A	5.94		5.165/1.500	7.75	86.93%
0.190	0.4078	79.17	1.5A	8.91		5.142/3.001	15.43	84.75%
0.333	0.4755	84.01	3A	18.20				

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: N/A)



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <https://www.clearesult.com/80plus/> [\[clearesult.com\]](https://www.clearesult.com/)