

80 PLUS Verification and Testing Report

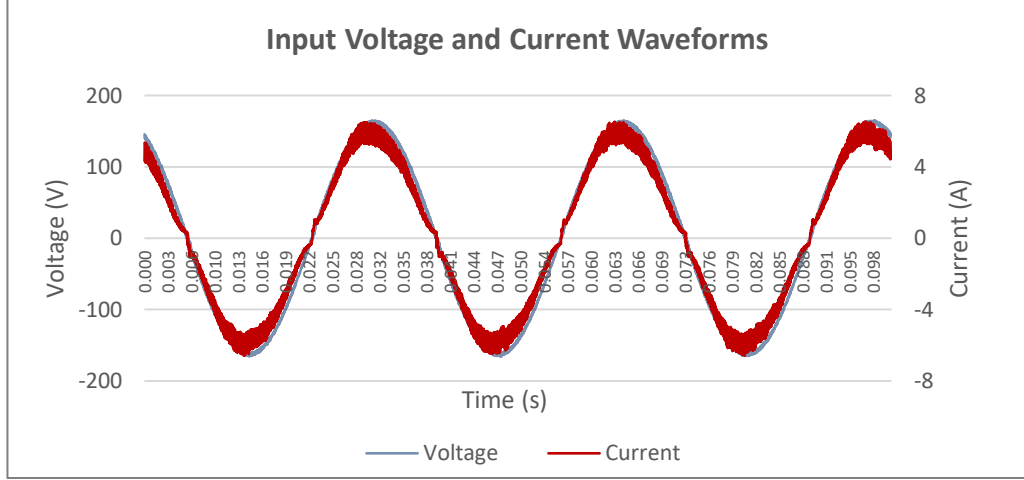
TYPICAL EFFICIENCY (50% Load):	91.47%
AVERAGE EFFICIENCY :	82.40%
AVERAGE STANDBY EFFICIENCY :	74.11%
80 PLUS COMPLIANT:	Gold



ID Number	8083
Manufacturer	ASRock
Model Number	PRO- M850G
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	1/14/26

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



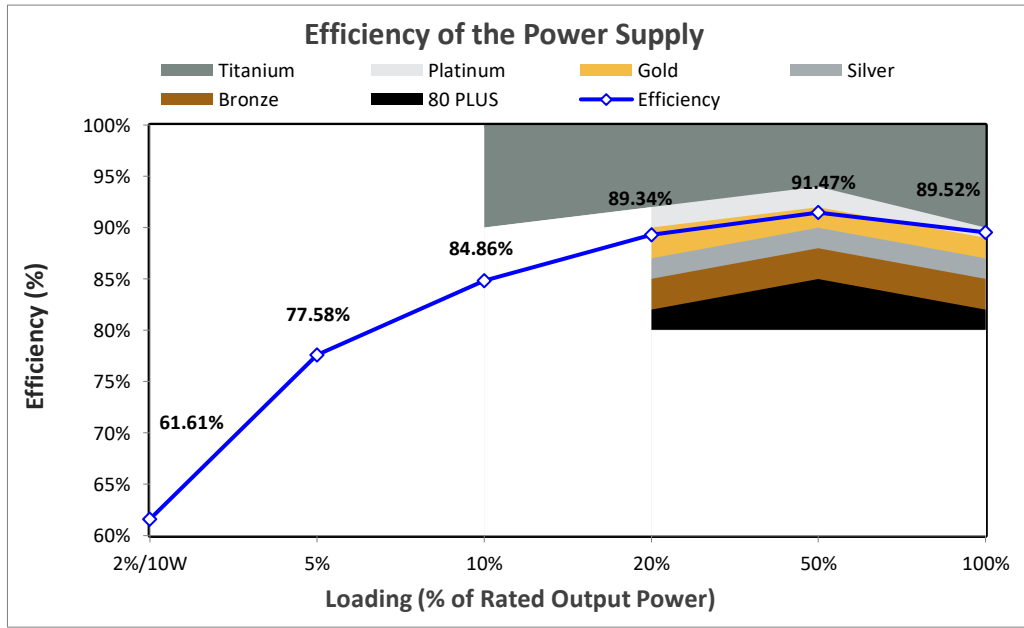
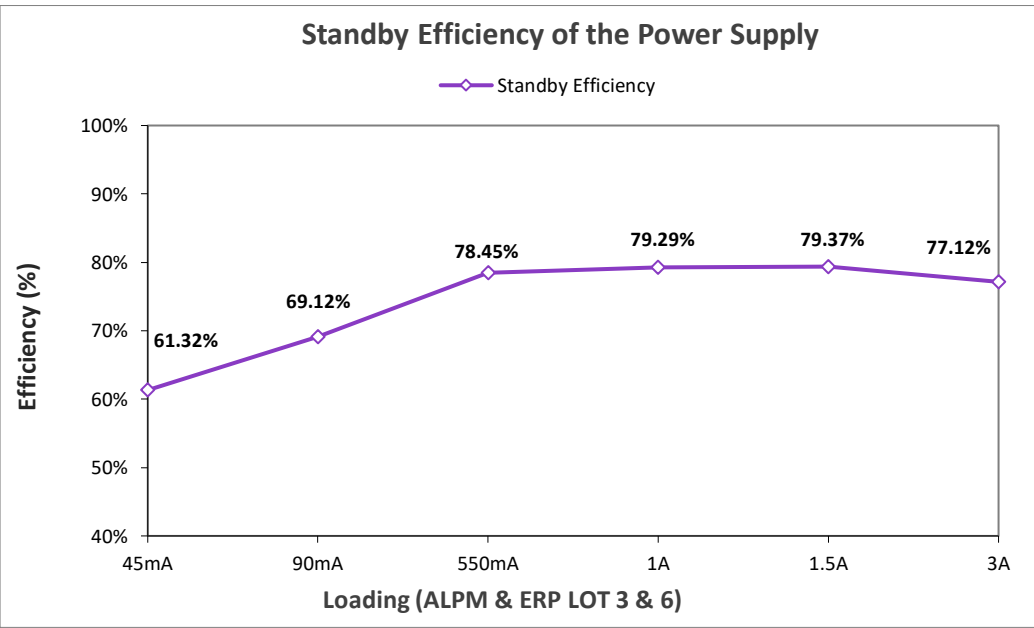
Input AC Current Waveform (ITHD = 4.54%, 50% Load)

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		
0.147	0.5723	23.33	0%	9.70	No-Load						
0.287	0.8444	17.31	2%/10W	27.88	12.119/1.220	12.199/0.005	3.306/0.249	5.084/0.248	5.119/0.052	17.18	61.61%
0.522	0.9222	11.97	5%	55.33	12.115/3.047	12.201/0.013	3.307/0.622	5.083/0.622	5.113/0.129	42.93	77.58%
0.909	0.9670	7.70	10%	101.13	12.111/6.092	12.204/0.026	3.310/1.241	5.084/1.242	5.104/0.258	85.82	84.86%
1.694	0.9875	6.56	20%	192.01	12.101/12.182	12.211/0.052	3.314/2.485	5.083/2.485	5.086/0.516	171.53	89.34%
4.084	0.9958	4.54	50%	467.95	12.075/30.454	12.234/0.129	3.329/6.216	5.083/6.217	5.029/1.290	428.06	91.47%
8.309	0.9967	4.67	100%	953.03	12.028/60.901	12.275/0.258	3.354/12.433	5.080/12.434	4.932/2.580	853.18	89.52%

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			
0.073	0.0099	9.80	0mA	0.09	Vampire Load			
0.109	0.0300	17.04	45mA	0.38	5.145/0.045		0.23	61.32%
0.155	0.0376	25.22	90mA	0.67	5.144/0.090		0.46	69.12%
0.191	0.1639	68.72	550mA	3.60	5.127/0.550		2.82	78.45%
0.221	0.2528	79.45	1A	6.45	5.111/1.000		5.11	79.29%
0.301	0.2779	83.00	1.5A	9.63	5.093/1.500		7.64	79.37%
0.559	0.3040	84.85	3A	19.57	5.030/3.000		15.09	77.12%

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/)