

80 PLUS Verification and Testing Report

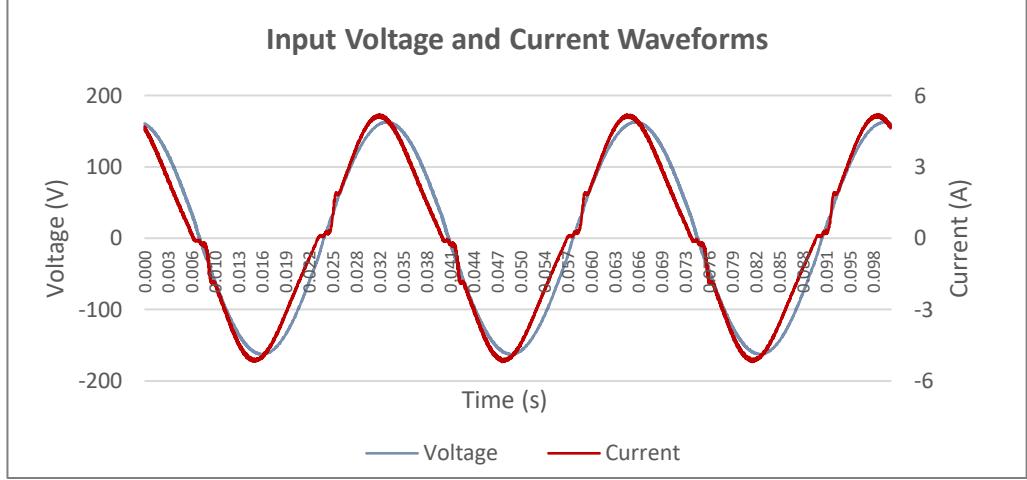
TYPICAL EFFICIENCY (50% Load):	86.86%
AVERAGE EFFICIENCY :	76.93%
AVERAGE STANDBY EFFICIENCY :	70.68%
80 PLUS COMPLIANT:	Bronze



ID Number	7914
Manufacturer	Redragon
Model Number	RGPS-650WGU
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	8/1/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



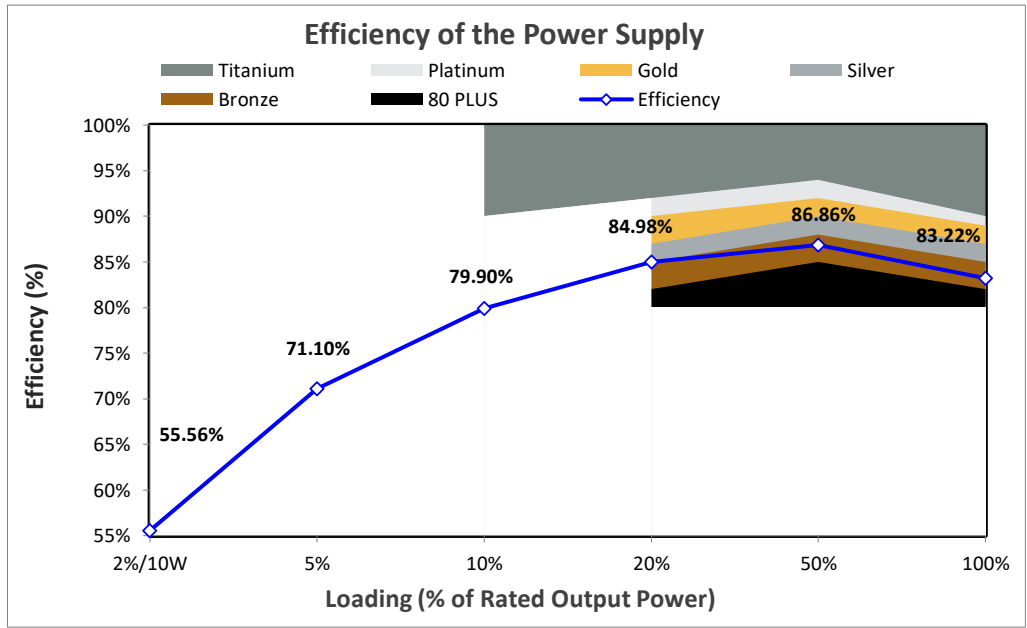
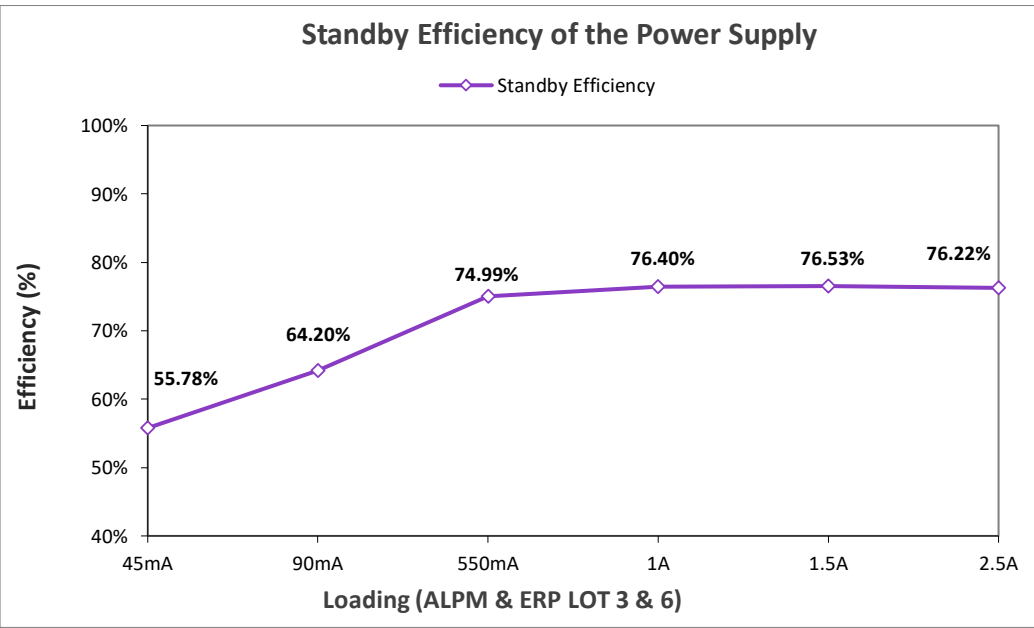
Input AC Current Waveform (ITHD = 10.99%, 50% Load)

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		
0.157	0.7947	22.12	0%	14.34	No-Load						
0.230	0.8968	18.00	2%/10W	23.70	12.245/0.918	11.867/0.005	3.313/0.204	4.891/0.204	5.042/0.042	13.17	55.56%
0.420	0.9578	15.25	5%	46.30	12.245/2.292	12.277/0.013	3.310/0.511	4.889/0.511	5.037/0.106	32.92	71.10%
0.735	0.9747	16.78	10%	82.37	12.244/4.582	12.293/0.025	3.307/1.020	4.888/1.020	5.030/0.212	65.82	79.90%
1.391	0.9673	17.55	20%	154.79	12.236/9.162	12.276/0.051	3.299/2.041	4.883/2.042	5.014/0.424	131.54	84.98%
3.338	0.9845	10.99	50%	377.82	12.216/22.901	12.230/0.127	3.277/5.107	4.871/5.107	4.967/1.060	328.17	86.86%
6.886	0.9919	8.43	100%	785.13	12.167/45.797	12.331/0.254	3.238/10.215	4.852/10.216	4.886/2.120	653.35	83.22%

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		
0.074	0.0128	2.69	0mA	0.11		5.042/0.045	0.23	55.78%
0.075	0.0473	11.29	45mA	0.41		5.041/0.090	0.45	64.20%
0.076	0.0811	18.78	90mA	0.71		5.028/0.550	2.77	74.99%
0.101	0.3186	60.14	550mA	3.69		5.014/1.000	5.01	76.40%
0.137	0.4179	73.26	1A	6.56		5.000/1.500	7.50	76.53%
0.182	0.4669	78.75	1.5A	9.80		4.969/2.502	12.43	76.22%
0.281	0.5048	81.95	2.5A	16.31				

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]