

80 PLUS Verification and Testing Report

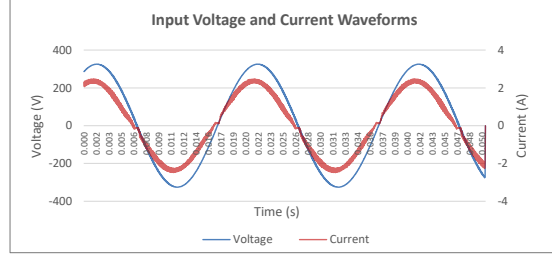
TYPICAL EFFICIENCY (50% Load):	89.93%
AVERAGE EFFICIENCY :	81.36%
AVERAGE STANDBY EFFICIENCY :	67.59%
80 PLUS COMPLIANT:	Bronze



ID Number	EU-1192
Manufacturer	GEMBIRD EUROPE BV
Model Number	CCC-PSUBRONZE-650W
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	4/2/25

Rated	Value	Units
Input Voltage	200-240	Volts
Input Current	6.3	Amps
Input Frequency	50/60	Hz
Rated Output Power	650	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



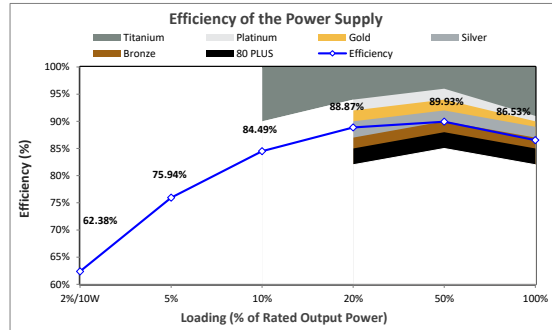
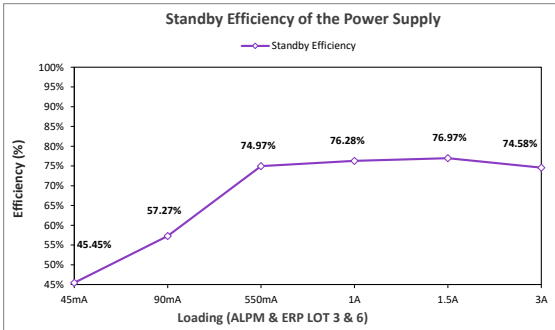
Input AC Current Waveform (ITHD = 4.22%, 50% Load)

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.)						
0.282	0.1471	24.69	0%	9.56	No-Load						
0.351	0.2656	21.09	2%/10W	21.45	12.390/0.917	12.341/0.005	3.317/0.204	5.045/0.204	5.173/0.051	13.38	62.38%
0.247	0.7763	13.44	5%	44.03	12.382/2.291	12.468/0.013	3.318/0.511	5.050/0.511	5.166/0.127	33.44	75.94%
0.384	0.8964	10.05	10%	79.09	12.374/4.581	12.420/0.025	3.314/1.019	5.046/1.019	5.156/0.255	66.83	84.49%
0.680	0.9597	6.74	20%	150.20	12.360/9.160	12.332/0.051	3.309/2.041	5.039/2.041	5.136/0.509	133.48	88.87%
1.625	0.9887	4.22	50%	369.46	12.309/22.897	12.254/0.127	3.291/5.106	5.008/5.106	5.075/1.272	332.25	89.93%
3.320	0.9965	2.32	100%	760.92	12.204/45.789	12.310/0.254	3.256/10.213	4.945/10.213	4.963/2.543	658.40	86.53%

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			
0.227	0.0034	3.06	0mA	0.18	Vampire Load			
0.223	0.0100	6.74	45mA	0.51	5.187/0.045		0.23	45.45%
0.088	0.0400	12.28	90mA	0.81	5.182/0.090		0.47	57.27%
0.101	0.1627	46.20	550mA	3.77	5.132/0.550		2.82	74.97%
0.120	0.2407	64.03	1A	6.66	5.074/1.000		5.08	76.28%
0.145	0.2932	74.07	1.5A	9.82	5.040/1.500		7.56	76.97%
0.232	0.3672	84.93	3A	19.66	4.882/3.003		14.66	74.58%

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/)