

80 PLUS Verification and Testing Report

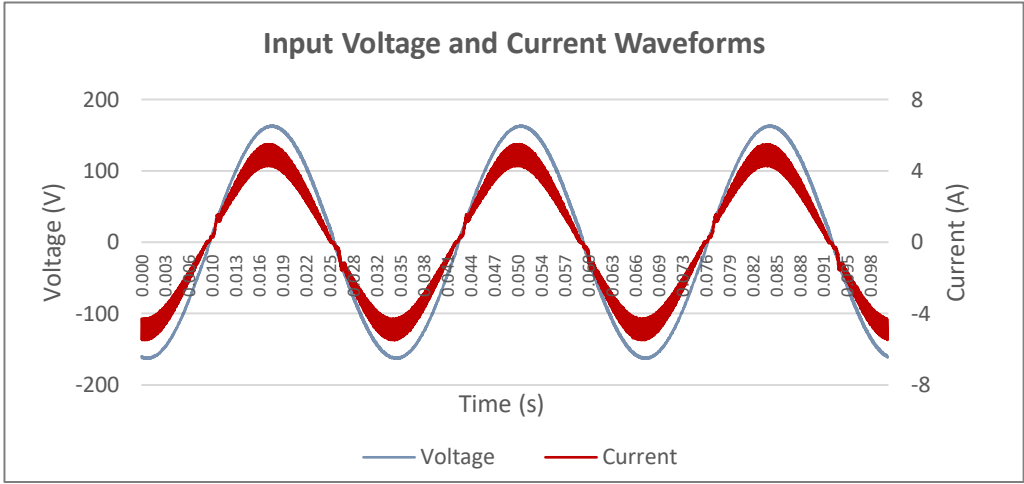
TYPICAL EFFICIENCY (50% Load):	87.09%
AVERAGE EFFICIENCY :	78.59%
AVERAGE STANDBY EFFICIENCY :	73.91%
80 PLUS COMPLIANT:	Bronze



ID Number	7924
Manufacturer	Chieftec
Model Number	BPX-650
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	8/8/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	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.



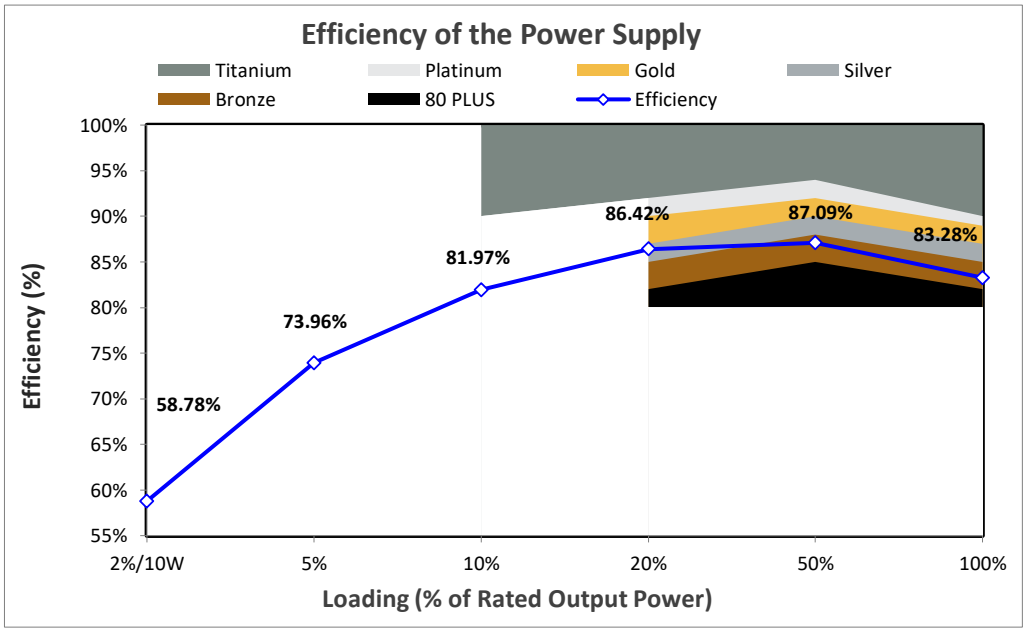
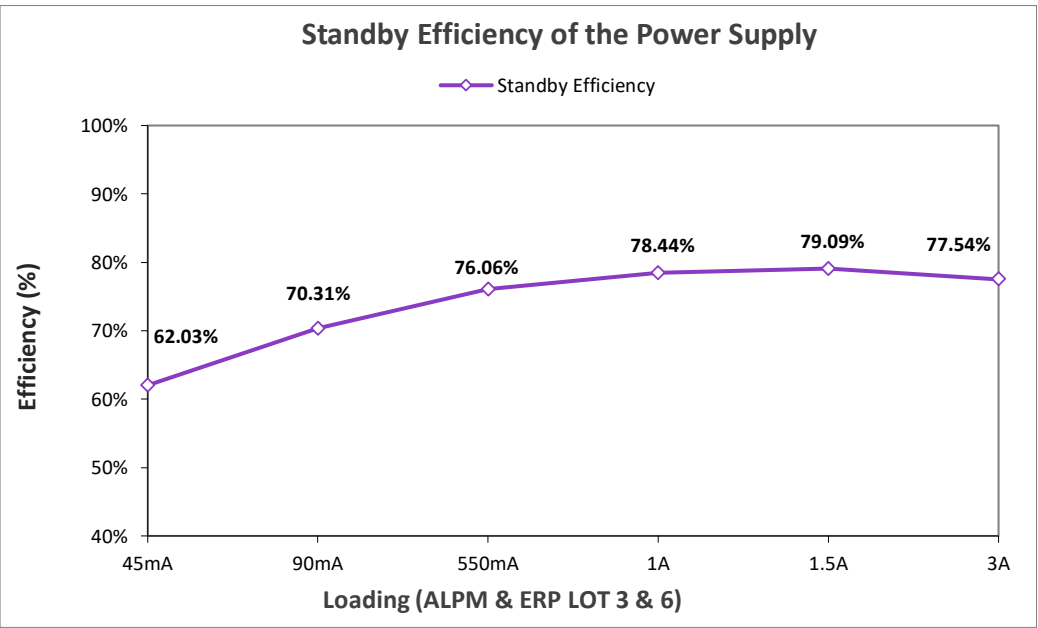
Input AC Current Waveform (ITHD = 3.91%, 50% Load)

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		
0.122	0.5039	40.95	0%	7.05	No-Load						
0.244	0.8125	23.20	2%/10W	22.80	12.381/0.917	12.136/0.005	3.405/0.204	5.108/0.204	5.123/0.051	13.40	58.78%
0.430	0.9156	13.34	5%	45.29	12.380/2.291	12.167/0.013	3.404/0.510	5.106/0.510	5.119/0.127	33.50	73.96%
0.743	0.9563	8.75	10%	81.70	12.380/4.581	12.200/0.025	3.404/1.018	5.106/1.018	5.112/0.254	66.97	81.97%
1.373	0.9816	5.54	20%	154.97	12.379/9.161	12.256/0.051	3.400/2.038	5.101/2.038	5.099/0.508	133.93	86.42%
3.362	0.9933	3.91	50%	384.19	12.375/22.903	12.441/0.127	3.389/5.098	5.085/5.098	5.059/1.270	334.61	87.09%
7.053	0.9962	3.05	100%	802.22	12.366/45.802	12.726/0.254	3.364/10.197	5.056/10.198	4.990/2.539	668.12	83.28%

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			
0.056	0.0131	4.58	0mA	0.08	Vampire Load			
0.057	0.0562	17.48	45mA	0.37	5.098/0.045		0.23	62.03%
0.060	0.0943	28.34	90mA	0.65	5.097/0.090		0.46	70.31%
0.099	0.3226	75.19	550mA	3.68	5.086/0.550		2.80	76.06%
0.147	0.3832	83.78	1A	6.47	5.074/1.000		5.07	78.44%
0.199	0.4194	86.06	1.5A	9.60	5.062/1.500		7.59	79.09%
0.360	0.4684	86.56	3A	19.45	5.023/3.002		15.08	77.54%

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]