80 PLUS Verification and Testing Report

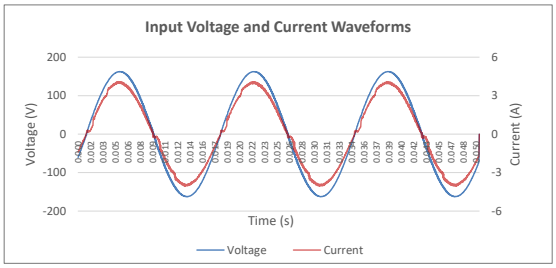
TYPICAL EFFICIENCY (50% Load):	87.46%
AVERAGE EFFICIENCY :	81.02%
AVERAGE STANDBY EFFICIENCY :	76.66%
80 PLUS COMPLIANT:	Bronze



ID Number	7840.1
Manufacturer	Channel Well Technology Co.
Model Number	HPQ550S-B
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	5/27/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	50-60	Hz
Rated Output Power	550	Watts

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



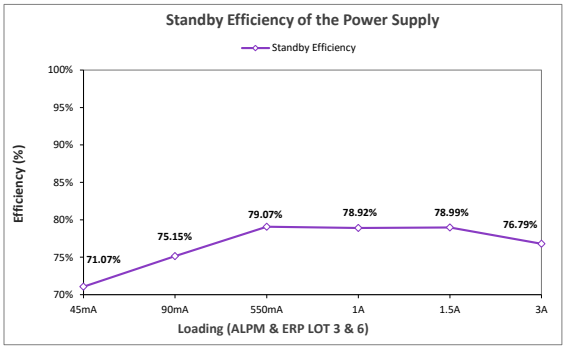
Input AC Current Waveform (ITHD = 4.47%, 50% Load)

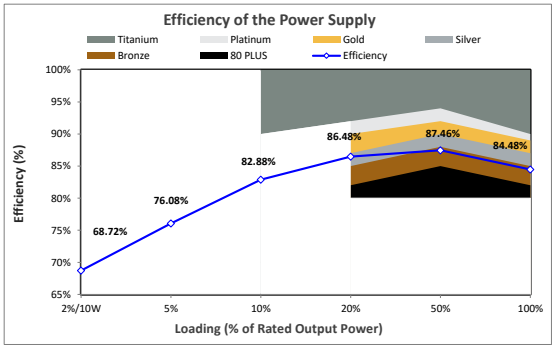
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.116	0.1915	20.08	0%	2.54	No-Load						
0.238	**0.5897**	28.60	2%/10W	16.17	12.121/0.733	11.994/0.005	3.345/0.232	5.030/0.232	5.153/0.048	11.11	**68.72%**
0.328	**0.9664**	22.10	5%	36.52	12.119/1.830	11.996/0.012	3.345/0.581	5.030/0.581	5.148/0.121	27.78	**76.08%**
0.591	**0.9856**	13.13	10%	67.00	12.117/3.657	11.995/0.024	3.345/1.160	5.030/1.160	5.142/0.241	55.53	**82.88%**
1.123	**0.9943**	7.50	20%	128.41	12.112/7.314	11.997/0.048	3.345/2.321	5.030/2.321	5.128/0.482	111.05	**86.48%**
2.761	**0.9985**	4.47	50%	317.00	12.092/18.282	11.998/0.121	3.346/5.806	5.031/5.806	5.084/1.205	277.26	**87.46%**
5.704	**0.9984**	3.29	100%	654.74	12.059/36.557	12.003/0.241	3.348/11.612	5.034/11.612	5.008/2.410	553.12	**84.48%**

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		
0.087	0.0033	1.00	0mA	0.03	Vampire Load		
0.088	**0.0322**	10.10	45mA	0.33	5.156/0.045	0.23	**71.07%**
0.089	**0.0602**	17.94	90mA	0.62	5.155/0.090	0.46	**75.15%**
0.117	**0.2653**	62.20	550mA	3.58	5.143/0.550	2.83	**79.07%**
0.160	**0.3536**	75.96	1A	6.50	5.131/1.000	5.13	**78.92%**
0.206	**0.4097**	81.38	1.5A	9.72	5.117/1.500	7.68	**78.99%**
0.367	**0.4702**	85.10	3A	19.84	5.073/3.003	15.23	**76.79%**

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.
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