80 PLUS Verification and Testing Report

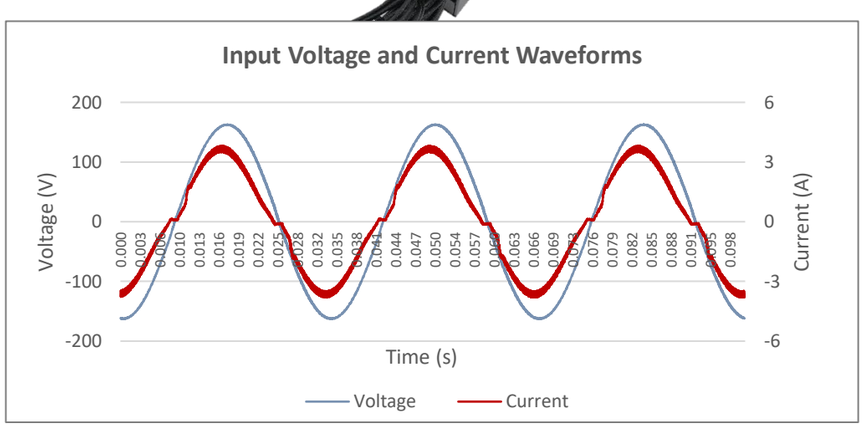
TYPICAL EFFICIENCY (50% Load):	**88.49%**
AVERAGE EFFICIENCY :	**77.93%**
AVERAGE STANDBY EFFICIENCY :	**74.92%**
80 PLUS COMPLIANT:	**Silver**



ID Number	7917
Manufacturer	Sea Sonic Electronics Co., Ltd.
Model Number	SRP-CBC651-A5A51JF
Sample 1 S/N:	R2507GA101140002
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	8/6/25

Rated	Value	Units
Input Voltage	100-240	**Volts**
Input Current	9-4.5	**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.



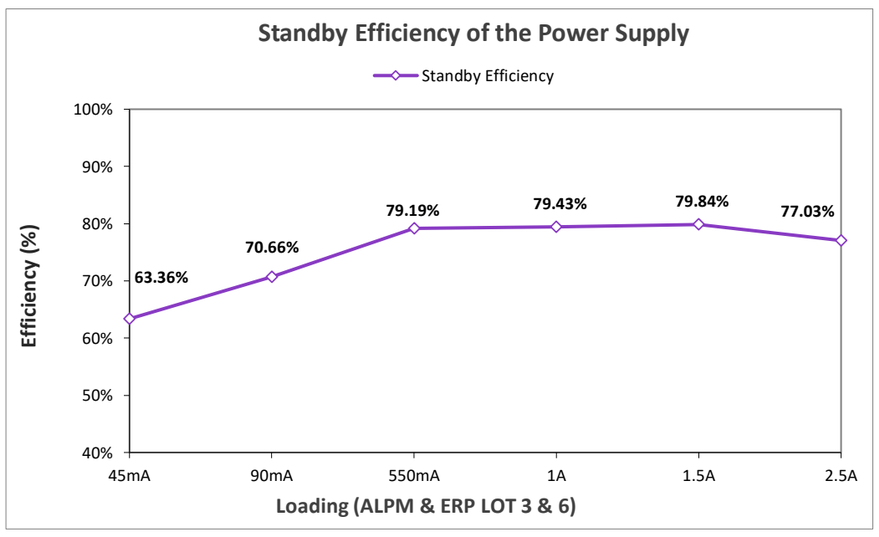
Input AC Current Waveform (ITHD = 11.39%, 50% Load)

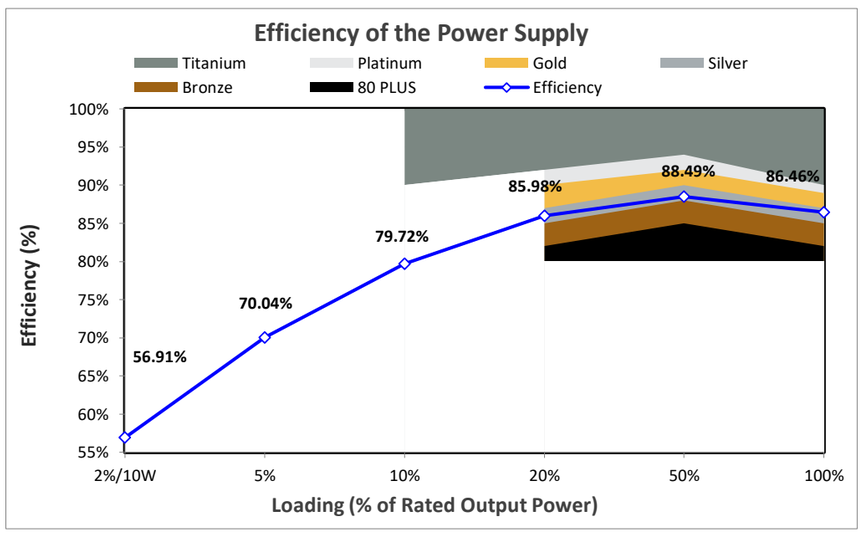
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.138	0.6006	25.77	0%	**9.57**	**No-Load**						
0.188	**0.7876**	22.96	2%/10W	**17.08**	12.026/0.645	11.574/0.005	3.290/0.205	5.005/0.205	5.142/0.043	**9.72**	**56.91%**
0.330	**0.9124**	22.04	5%	**34.68**	12.025/1.610	11.723/0.013	3.291/0.512	5.005/0.512	5.141/0.106	**24.29**	**70.04%**
0.555	**0.9542**	19.36	10%	**60.90**	12.025/3.218	11.839/0.026	3.292/1.022	5.005/1.023	5.139/0.213	**48.55**	**79.72%**
1.003	**0.9796**	13.55	20%	**112.97**	12.026/6.433	11.775/0.051	3.294/2.047	5.006/2.048	5.136/0.425	**97.13**	**85.98%**
2.426	**0.9842**	11.39	50%	**274.50**	12.026/16.084	11.834/0.128	3.302/5.122	5.010/5.123	5.127/1.063	**242.92**	**88.49%**
4.918	**0.9940**	6.52	100%	**562.18**	12.027/32.162	11.912/0.255	3.313/10.246	5.013/10.246	5.109/2.126	**486.04**	**86.46%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: R2507GA101140002)

$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.073	0.0089	3.71	0mA	**0.07**	**Vampire Load**		
0.074	**0.0430**	13.17	45mA	**0.36**	5.139/0.045	**0.23**	**63.36%**
0.075	**0.0757**	21.48	90mA	**0.65**	5.139/0.090	**0.46**	**70.66%**
0.105	**0.2959**	66.00	550mA	**3.57**	5.133/0.550	**2.82**	**79.19%**
0.146	**0.3843**	78.13	1A	**6.45**	5.127/1.000	**5.13**	**79.43%**
0.196	**0.4270**	82.77	1.5A	**9.62**	5.120/1.500	**7.68**	**79.84%**
0.308	**0.4689**	85.39	2.5A	**16.59**	5.106/2.502	**12.78**	**77.03%**

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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