

80 PLUS Verification and Testing Report

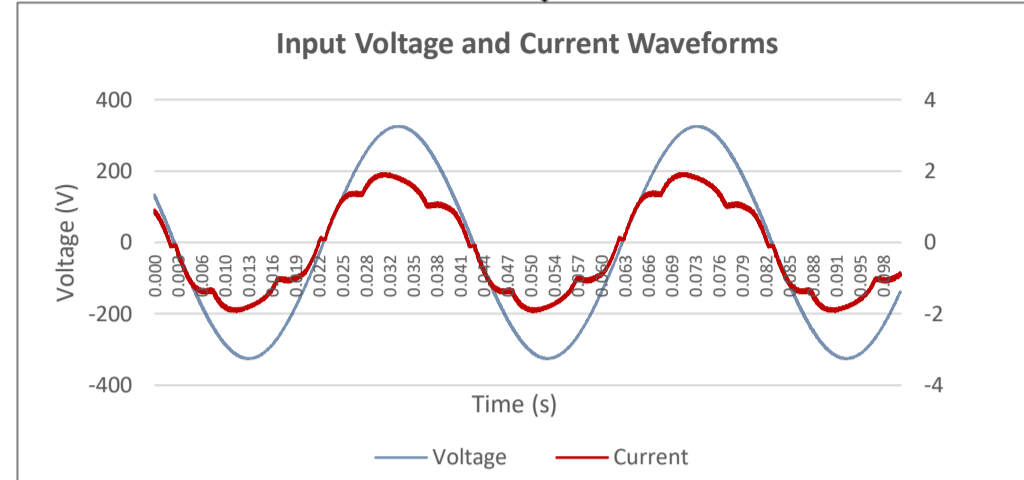
TYPICAL EFFICIENCY (50% Load):	88.00%
AVERAGE EFFICIENCY :	77.35%
AVERAGE STANDBY EFFICIENCY :	60.65%
80 PLUS COMPLIANT:	Standard



ID Number	EU-1246
Manufacturer	Formula V Technology CO.
Model Number	FV-650WD
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	8/18/25

Rated	Value	Units
Input Voltage	200-240	Volts
Input Current	5	Amps
Input Frequency	50	Hz
Rated Output Power	650	Watts

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

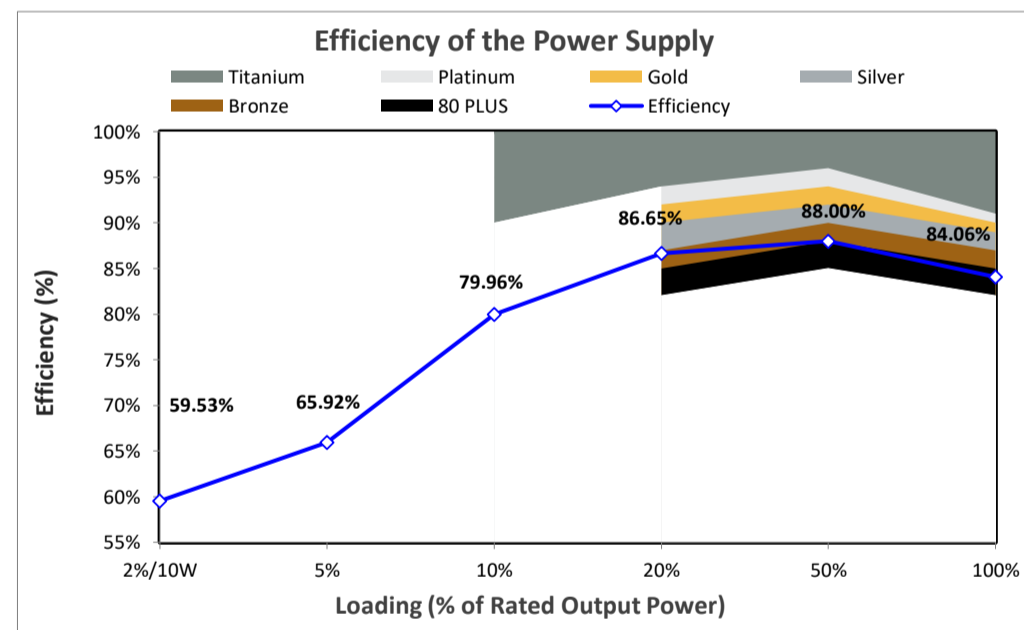
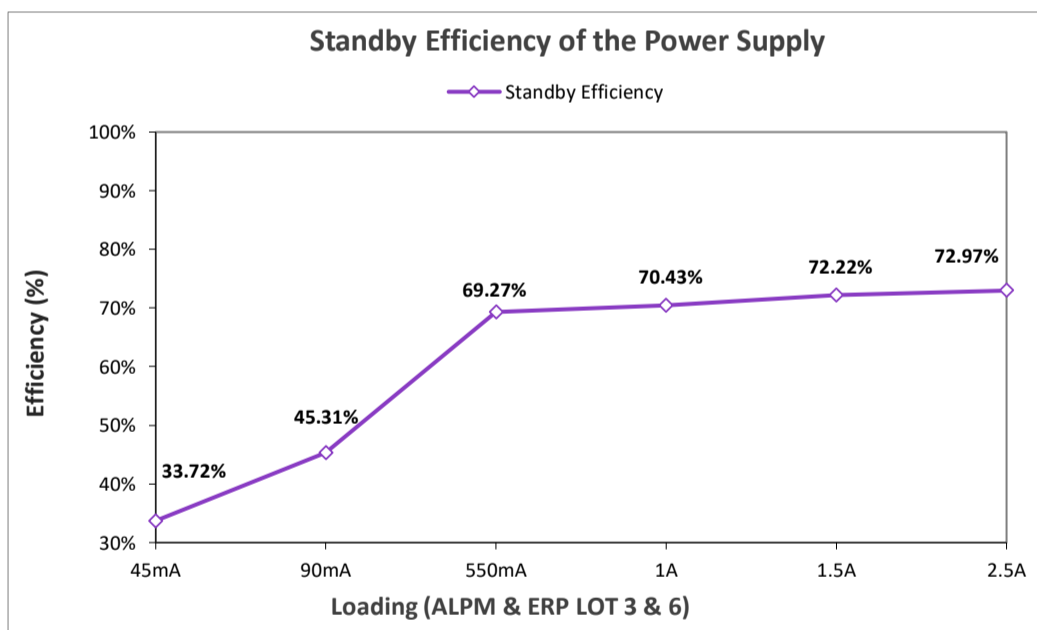


I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.102	0.0752	7.85	0%	2.16	No-Load						
0.279	0.3458	48.39	2%/10W	22.19	12.178/0.920	12.176/0.005	3.374/0.205	5.107/0.205	5.141/0.043	13.21	59.53%
0.380	0.4932	75.56	5%	43.13	12.177/1.922	12.401/0.013	3.369/0.512	5.100/0.512	5.134/0.106	28.43	65.92%
0.464	0.6212	77.18	10%	66.36	12.167/3.536	12.409/0.026	3.360/1.023	5.085/1.023	5.121/0.213	53.06	79.96%
0.638	0.8328	50.08	20%	122.23	12.153/7.070	12.400/0.051	3.343/2.048	5.056/2.048	5.095/0.425	105.91	86.65%
1.323	0.9838	12.80	50%	299.28	12.118/17.670	12.374/0.128	3.294/5.122	4.967/5.123	5.014/1.064	263.37	88.00%
2.722	0.9903	8.65	100%	620.06	12.099/35.341	12.441/0.255	3.209/10.246	4.808/10.246	4.813/2.126	521.23	84.06%

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		
0.066	0.0230	5.17	0mA	0.35				
0.067	0.0450	12.56	45mA	0.69		5.161/0.045	0.23	33.72%
0.067	0.0660	18.67	90mA	1.02		5.158/0.090	0.46	45.31%
0.083	0.2145	56.20	550mA	4.07		5.127/0.550	2.82	69.27%
0.105	0.2981	72.34	1A	7.24		5.096/1.000	5.10	70.43%
0.133	0.3448	79.85	1.5A	10.51		5.061/1.500	7.59	72.22%
0.192	0.3881	85.53	2.5A	17.10		4.985/2.502	12.47	72.97%

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.clearexult.com/80plus/> [clearexult.com]