80 PLUS Verification and Testing Report

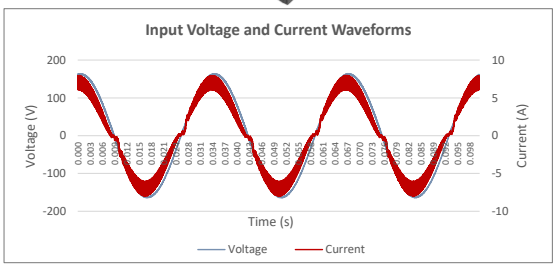


TYPICAL EFFICIENCY (50% Load):	92.41%
AVERAGE EFFICIENCY :	86.53%
AVERAGE STANDBY EFFICIENCY :	79.40%
80 PLUS COMPLIANT:	Platinum

ID Number	8121
Manufacturer	Cooler Master
Model Number	MPE-A0F1-AFP
Sample 1 S/N:	SCM0031000WF0600002
Sample 2 S/N:	SCM0031000WF0600001
Type	ATX 3.1
Test Date	2/19/26

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	13-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	1000	Watts

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



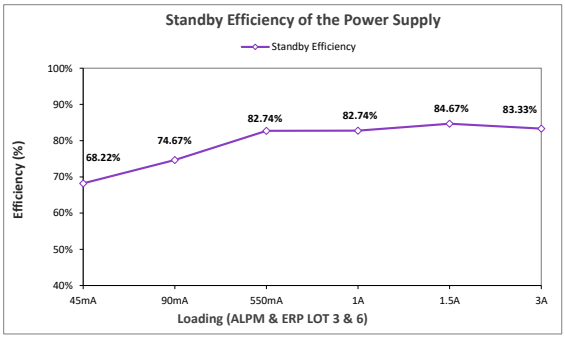
Input AC Current Waveform (ITHD = 7.14%, 50% Load)

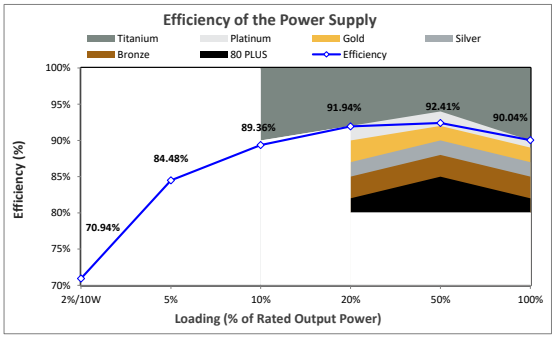
I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.186	0.3354	48.38	0%	7.21	No-Load						
0.328	**0.7498**	25.72	2%/10W	28.39	12.082/1.491	11.976/0.005	3.316/0.215	5.022/0.216	5.102/0.054	20.14	**70.94%**
0.590	**0.8754**	15.17	5%	59.42	12.044/3.726	11.977/0.013	3.315/0.539	5.021/0.539	5.099/0.134	50.20	**84.48%**
1.050	**0.9291**	9.25	10%	112.35	12.048/7.448	11.978/0.027	3.316/1.077	5.021/1.077	5.096/0.268	100.39	**89.36%**
1.974	**0.9627**	8.84	20%	218.50	12.053/14.897	11.979/0.054	3.315/2.154	5.020/2.155	5.088/0.537	200.88	**91.94%**
4.792	**0.9877**	7.14	50%	544.25	12.074/37.246	11.976/0.134	3.310/5.387	5.014/5.387	5.065/1.342	502.93	**92.41%**
9.750	**0.9962**	3.76	100%	1116.81	12.070/74.486	11.973/0.268	3.320/10.774	5.023/10.773	5.029/2.682	1005.59	**90.04%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: SCM0031000WF0600002)

I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.110	0.0041	11.33	0mA	0.05	Vampire Load		
0.065	**0.0454**	18.19	45mA	0.34	5.117/0.045	0.23	**68.22%**
0.067	**0.0794**	29.17	90mA	0.62	5.116/0.090	0.46	**74.67%**
0.103	**0.2871**	73.97	550mA	3.40	5.110/0.550	2.81	**82.74%**
0.148	**0.3632**	82.60	1A	6.17	5.103/1.000	5.10	**82.74%**
0.193	**0.4064**	84.92	1.5A	9.03	5.096/1.500	7.64	**84.67%**
0.343	**0.4643**	85.82	3A	18.27	5.073/3.002	15.23	**83.33%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: SCM0031000WF0600001)





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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