80 PLUS Verification and Testing Report

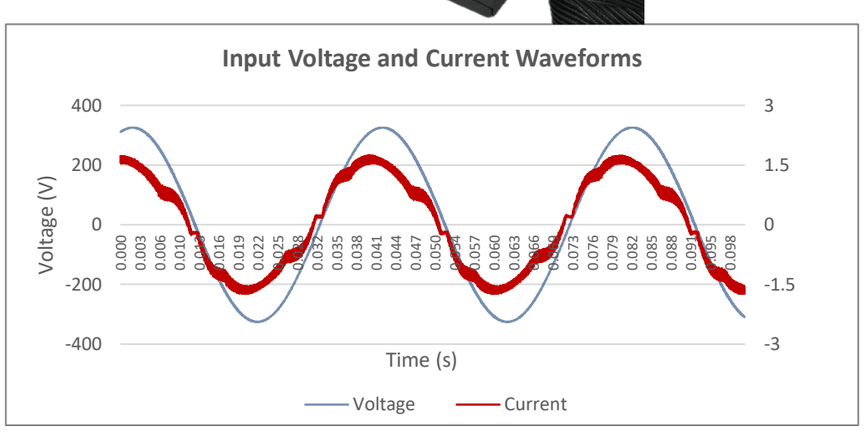


TYPICAL EFFICIENCY (50% Load):	88.34%
AVERAGE EFFICIENCY :	77.96%
AVERAGE STANDBY EFFICIENCY :	69.78%
80 PLUS COMPLIANT:	Bronze

ID Number	EU-1372
Manufacturer	Cooler Master
Model Number	MPT-45S2-ANB
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX2.52
Test Date	9/8/26

Rated	Value	Units
Input Voltage	200-240	**Volts**
Input Current	10	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	450	**Watts**

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



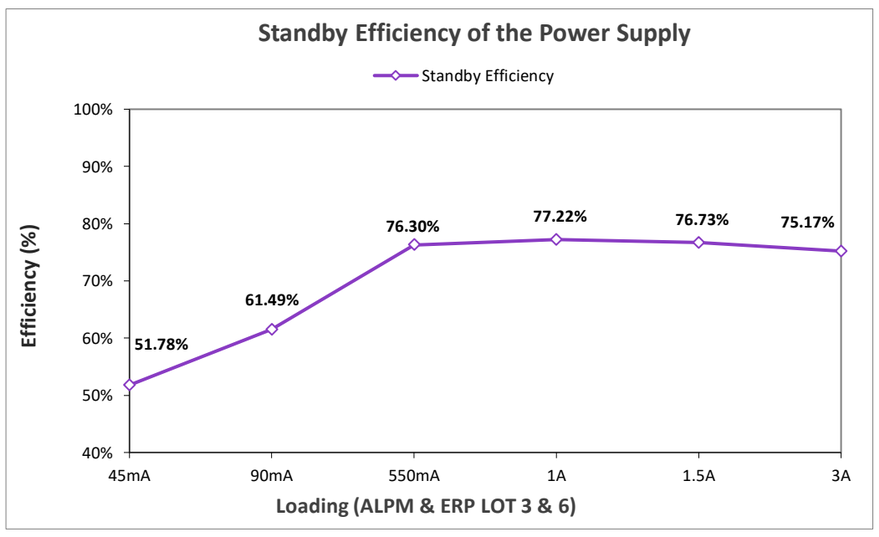
Input AC Current Waveform (ITHD = 9.08%, 50% Load)

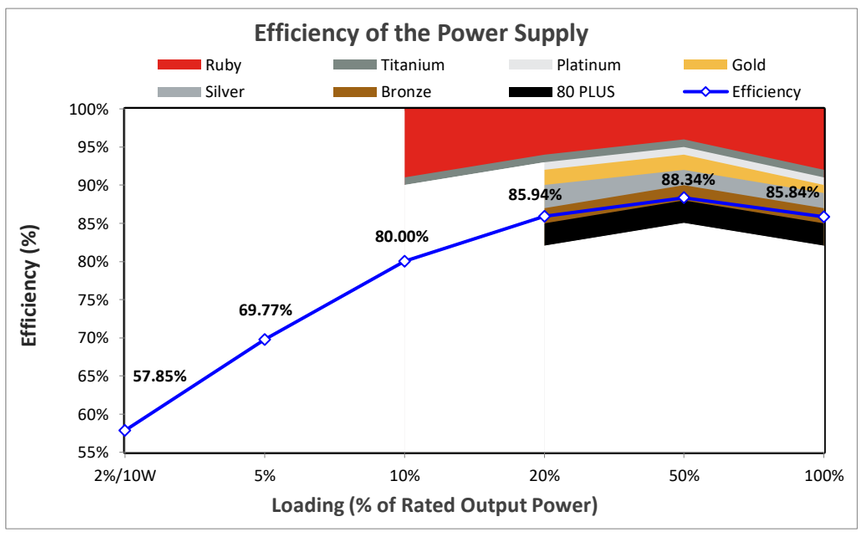
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.186	0.1021	9.85	0%	**5.98**	**No-Load**						
0.268	**0.2891**	24.86	2%/10W	**17.87**	12.248/0.551	0.000/0.000	3.386/0.150	5.157/0.500	5.088/0.100	**10.34**	**57.85%**
0.344	**0.4131**	33.41	5%	**32.95**	12.246/1.472	12.013/0.012	3.382/0.492	5.156/0.492	5.085/0.123	**22.99**	**69.77%**
0.437	**0.5717**	62.83	10%	**57.44**	12.242/2.943	12.033/0.025	3.377/0.985	5.150/0.985	5.074/0.245	**45.95**	**80.00%**
0.589	**0.7887**	48.82	20%	**106.81**	12.235/5.885	12.062/0.049	3.367/1.967	5.138/1.967	5.053/0.491	**91.79**	**85.94%**
1.155	**0.9748**	9.08	50%	**259.00**	12.211/14.712	12.151/0.123	3.340/4.921	5.108/4.921	4.986/1.226	**228.80**	**88.34%**
2.333	**0.9883**	7.27	100%	**530.30**	12.170/29.425	12.304/0.245	3.293/9.844	5.058/9.846	4.874/2.451	**455.21**	**85.84%**

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		
0.140	0.0039	1.00	0mA	**0.13**	**Vampire Load**		
0.141	**0.0137**	4.17	45mA	**0.44**	5.118/0.045	**0.23**	**51.78%**
0.141	**0.0231**	6.93	90mA	**0.75**	5.113/0.090	**0.46**	**61.49%**
0.147	**0.1074**	28.53	550mA	**3.65**	5.059/0.550	**2.78**	**76.30%**
0.159	**0.1770**	43.76	1A	**6.48**	5.006/1.000	**5.01**	**77.22%**
0.177	**0.2378**	56.13	1.5A	**9.67**	4.944/1.500	**7.42**	**76.73%**
0.242	**0.3399**	74.44	3A	**18.97**	4.753/3.000	**14.26**	**75.17%**

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]*