80 PLUS Verification and Testing Report

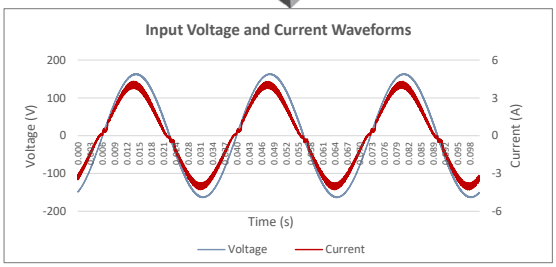
TYPICAL EFFICIENCY (50% Load):	**90.86%**
AVERAGE EFFICIENCY :	**80.73%**
AVERAGE STANDBY EFFICIENCY :	**76.19%**
80 PLUS COMPLIANT:	**Gold**



ID Number	8177
Manufacturer	Montech
Model Number	Century II 550W
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	5/5/26

Rated	Value	Units
Input Voltage	100-240	**Volts**
Input Current	10	**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.



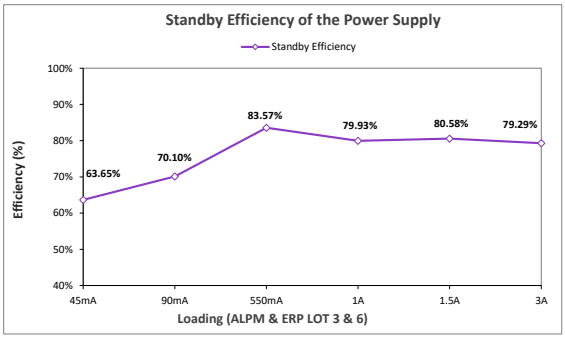
Input AC Current Waveform (ITHD = 8.51%, 50% Load)

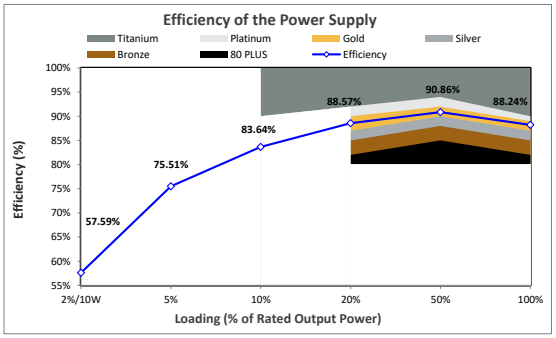
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.166	0.4067	31.03	0%	**7.76**	**No-Load**						
0.249	**0.6761**	22.13	2%/10W	**19.33**	12.114/0.755	12.039/0.005	3.371/0.198	5.120/0.198	5.115/0.050	**11.13**	**57.59%**
0.373	**0.8582**	14.09	5%	**36.84**	12.112/1.886	12.043/0.012	3.369/0.496	5.117/0.496	5.108/0.124	**27.82**	**75.51%**
0.611	**0.9458**	10.43	10%	**66.47**	12.111/3.769	12.051/0.025	3.365/0.992	5.113/0.992	5.096/0.247	**55.60**	**83.64%**
1.119	**0.9745**	10.18	20%	**125.47**	12.105/7.539	12.066/0.049	3.359/1.982	5.107/1.983	5.071/0.494	**111.14**	**88.57%**
2.678	**0.9904**	8.51	50%	**305.16**	12.089/18.848	12.128/0.124	3.337/4.958	5.082/4.958	4.997/1.235	**277.25**	**90.86%**
5.467	**0.9957**	6.51	100%	**626.28**	12.068/37.692	12.233/0.247	3.299/9.916	5.037/9.917	4.869/2.469	**552.61**	**88.24%**

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		
0.092	0.0068	5.22	0mA	**0.07**	**Vampire Load**		
0.093	**0.0342**	11.99	45mA	**0.36**	5.144/0.045	**0.23**	**63.65%**
0.094	**0.0612**	20.04	90mA	**0.66**	5.142/0.090	**0.46**	**70.10%**
0.122	**0.2413**	63.73	550mA	**3.37**	5.118/0.550	**2.82**	**83.57%**
0.165	**0.3367**	77.09	1A	**6.37**	5.095/1.000	**5.09**	**79.93%**
0.213	**0.3853**	82.33	1.5A	**9.44**	5.069/1.500	**7.60**	**80.58%**
0.377	**0.4376**	86.26	3A	**18.88**	4.987/3.002	**14.97**	**79.29%**

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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