

80 PLUS Verification and Testing Report

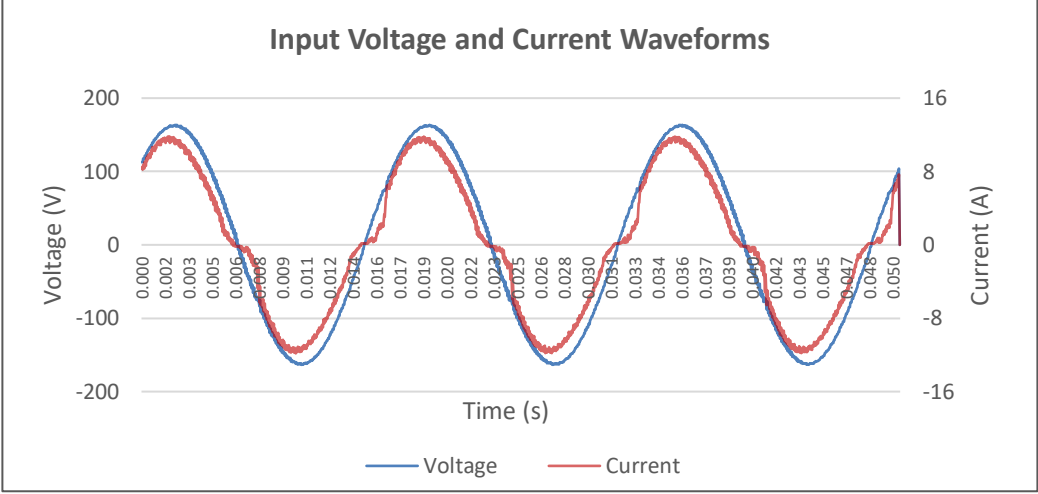
TYPICAL EFFICIENCY (50% Load):	94.53%
AVERAGE EFFICIENCY :	90.82%
80 PLUS COMPLIANT:	Titanium



ID Number	7619
Manufacturer	ASRock
Model Number	TC-1650T
Serial Number	9PA16F0500 S4331030028
Type	ATX12V, ATX 3.0, ATX 3.1
Test Date	10/14/24

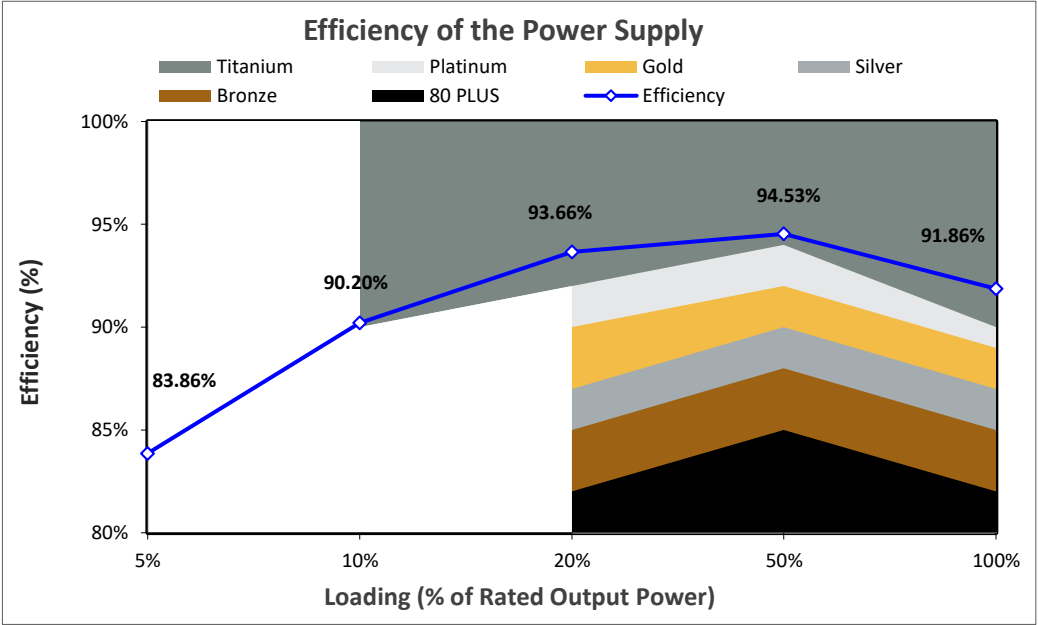
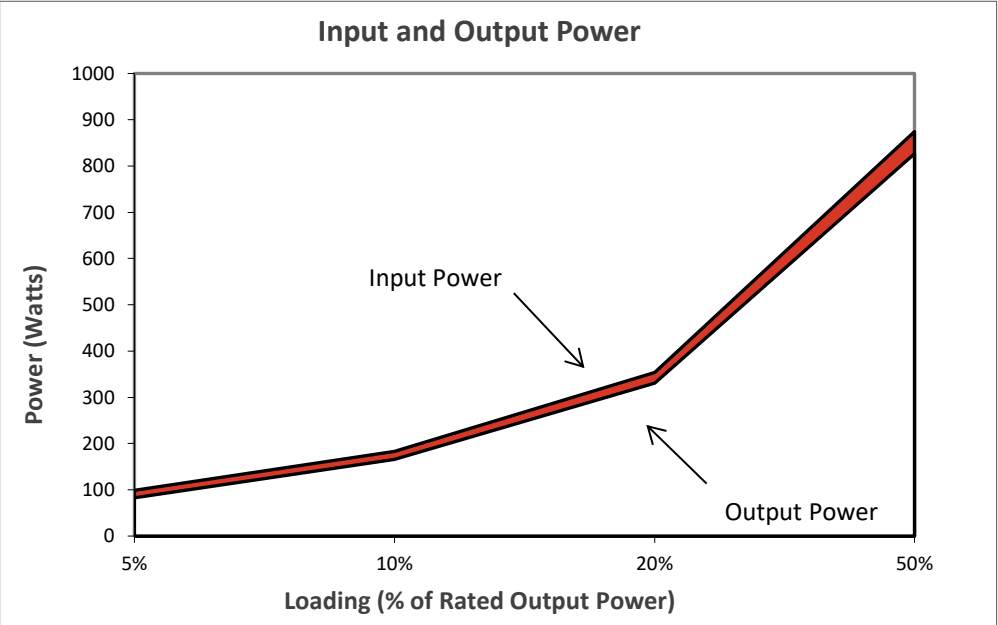
Rated Specifications	Value	Units
Input Voltage	115-240	Volts
Input Current	16-10	Amps
Input Frequency	50-60	Hz
Rated Output Power	1650	Watts

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



Input AC Current Waveform (ITHD = 14.44%, 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		
0.160	0.6484	12.45	0%	11.92	No-Load						
0.895	0.9577	21.83	5%	98.56	12.01/6.3	12.09/0.023	3.35/0.72	5.05/0.72	5.01/0.137	82.66	83.86%
1.637	0.9739	20.15	10%	183.40	12.02/12.6	12.08/0.046	3.35/1.43	5.05/1.43	5.01/0.275	165.43	90.20%
3.172	0.9681	23.96	20%	353.14	12.02/25.2	12.08/0.092	3.34/2.87	5.05/2.87	5.01/0.55	330.76	93.66%
7.697	0.9876	14.44	50%	874.35	12.02/62.99	12.06/0.229	3.32/7.18	5.02/7.18	5.01/1.375	826.54	94.53%
15.700	0.9962	7.26	100%	1797.85	12.02/125.97	12.03/0.458	3.28/14.35	4.99/14.35	4.96/2.748	1651.58	91.86%



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.
<http://www.80plus.org/>