

80 PLUS Verification and Testing Report

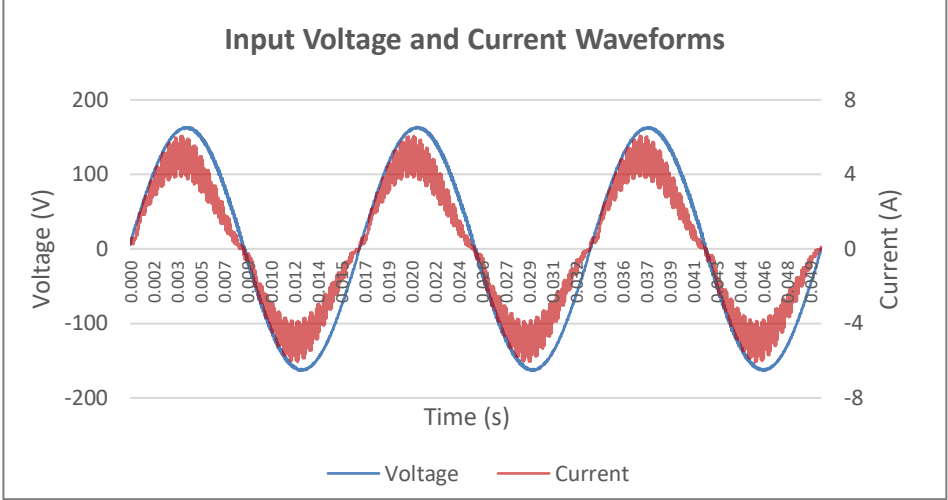
TYPICAL EFFICIENCY (50% Load):	86.83%
AVERAGE EFFICIENCY :	81.82%
80 PLUS COMPLIANT:	Bronze



ID Number	7263.2
Manufacturer	Tacens
Model Number	APB650
Serial Number	N/A
Year	2023
Type	ATX12V
Test Date	1/8/24

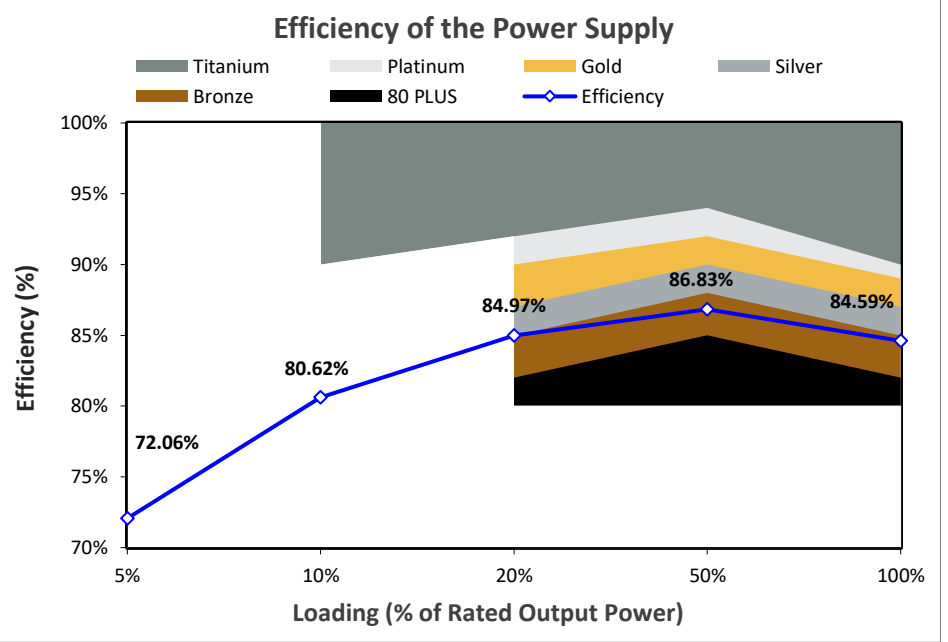
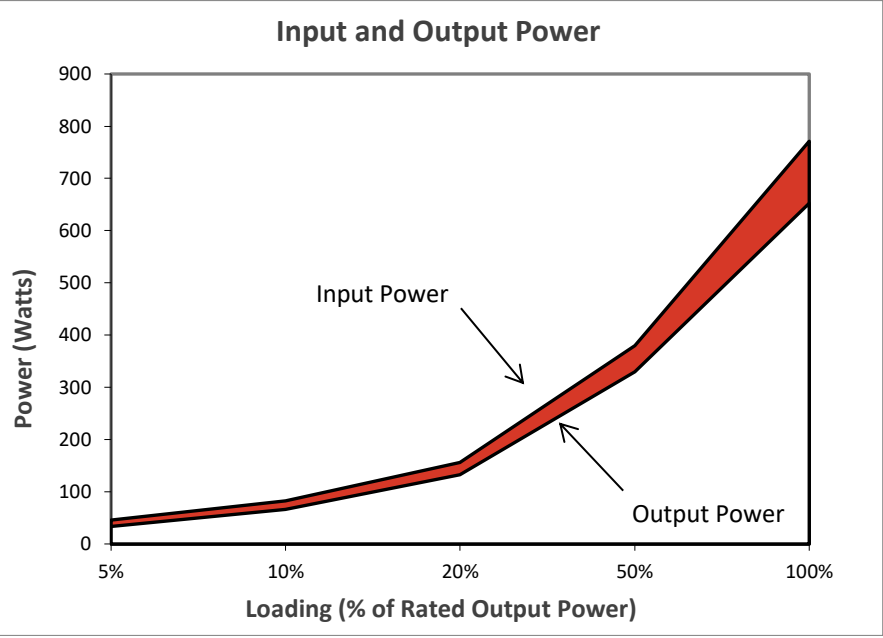
Rated Specifications	Value	Units
Input Voltage	115/230	Volts
Input Current	7.5	Amps
Input Frequency	47-63	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 8.23%, 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		
0.100	0.4301	30.69	0%	4.95	No-Load						
0.511	0.7842	24.01	5%	46.05	12.22/2.37	11.97/0.013	3.4/0.42	5.25/0.42	5.21/0.088	33.19	72.06%
0.830	0.8619	21.49	10%	82.28	12.21/4.74	11.98/0.026	3.4/0.84	5.24/0.84	5.2/0.175	66.33	80.62%
1.459	0.9292	16.62	20%	155.92	12.2/9.47	11.99/0.053	3.38/1.69	5.22/1.69	5.18/0.351	132.48	84.97%
3.375	0.9774	8.23	50%	379.41	12.15/23.67	12.02/0.131	3.33/4.22	5.15/4.22	5.1/0.876	329.46	86.83%
6.811	0.9846	5.11	100%	771.23	12.06/47.33	12.08/0.263	3.23/8.45	5.01/8.45	4.95/1.753	652.41	84.59%



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/>