

80 PLUS Verification and Testing Report

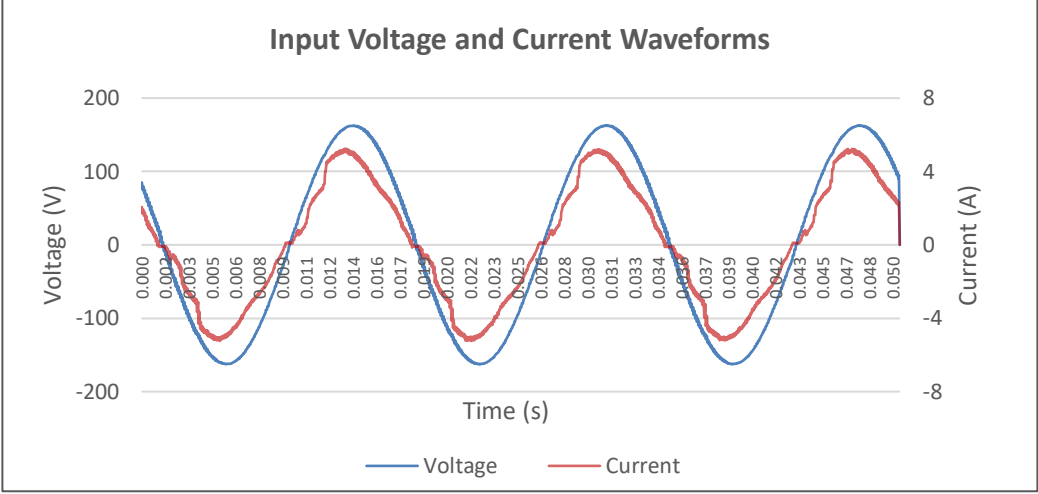
TYPICAL EFFICIENCY (50% Load):	87.86%
AVERAGE EFFICIENCY :	82.45%
80 PLUS COMPLIANT:	Bronze



ID Number	7549
Manufacturer	GAMDIAS Technology Co., Ltd.
Model Number	HELIOS M2-650B
Serial Number	N/A
Type	ATX 3.1
Test Date	9/16/24

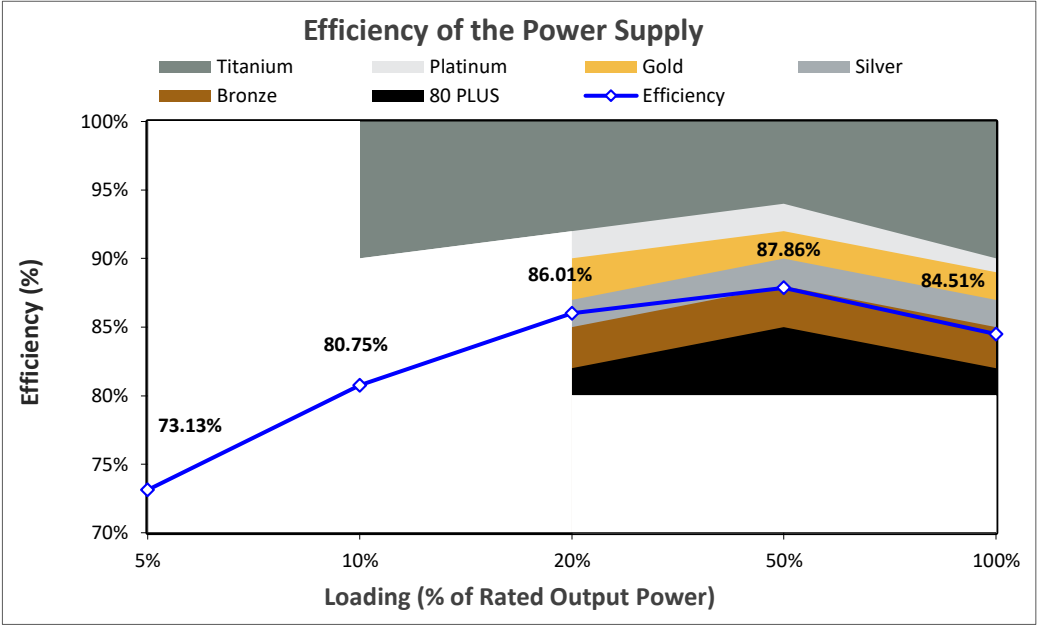
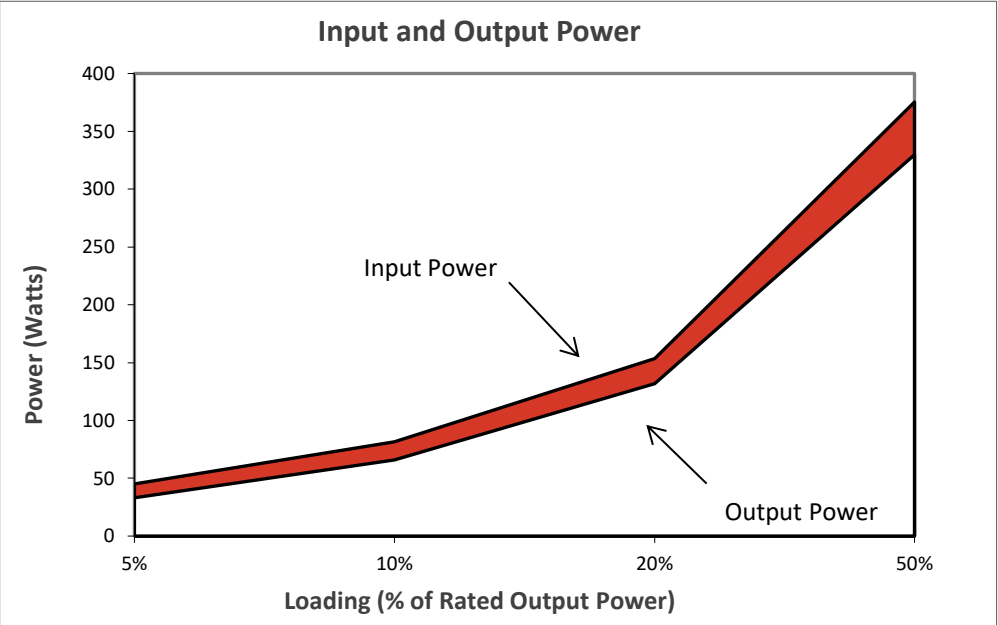
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 13.08%, 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		
0.103	0.5486	29.93	0%	6.47	No-Load						
0.416	0.9424	26.55	5%	45.11	12.19/2.23	12.26/0.012	3.31/0.6	5.07/0.6	5.14/0.124	32.99	73.13%
0.732	0.9701	18.55	10%	81.70	12.19/4.47	12.29/0.025	3.31/1.19	5.07/1.19	5.14/0.248	65.97	80.75%
1.354	0.9849	14.19	20%	153.38	12.19/8.93	12.29/0.05	3.31/2.39	5.06/2.39	5.13/0.495	131.91	86.01%
3.299	0.9895	13.08	50%	375.30	12.18/22.32	12.36/0.124	3.31/5.96	5.06/5.96	5.1/1.238	329.75	87.86%
6.859	0.9901	9.25	100%	780.72	12.19/44.64	12.57/0.248	3.31/11.93	5.06/11.93	5.05/2.475	659.77	84.51%



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/>