

80 PLUS Verification and Testing Report

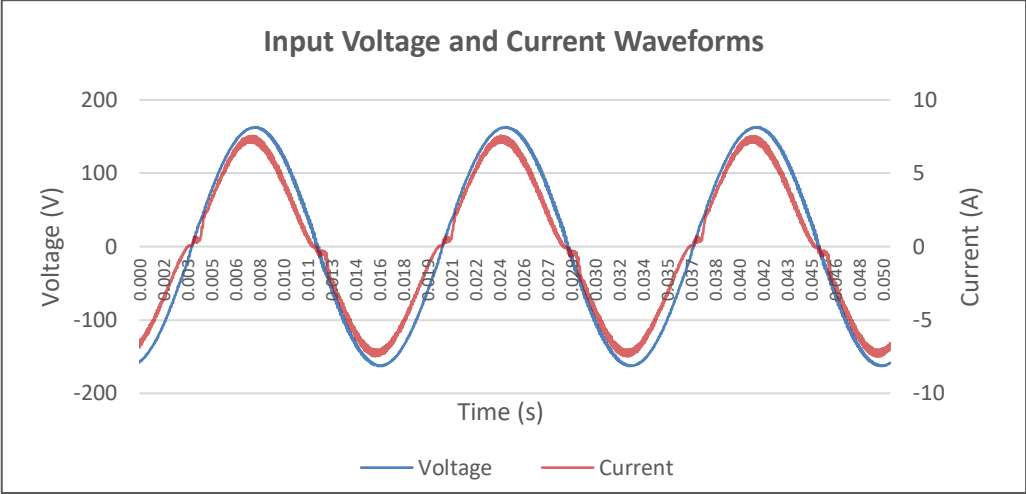
TYPICAL EFFICIENCY (50% Load):	91.47%
AVERAGE EFFICIENCY :	88.33%
80 PLUS COMPLIANT:	Gold



ID Number	7431
Manufacturer	Nanjing Huaqi Information Technology Developments
Model Number	ES1000
Serial Number	HYD909833400217
Type	EPS12V
Test Date	6/5/24

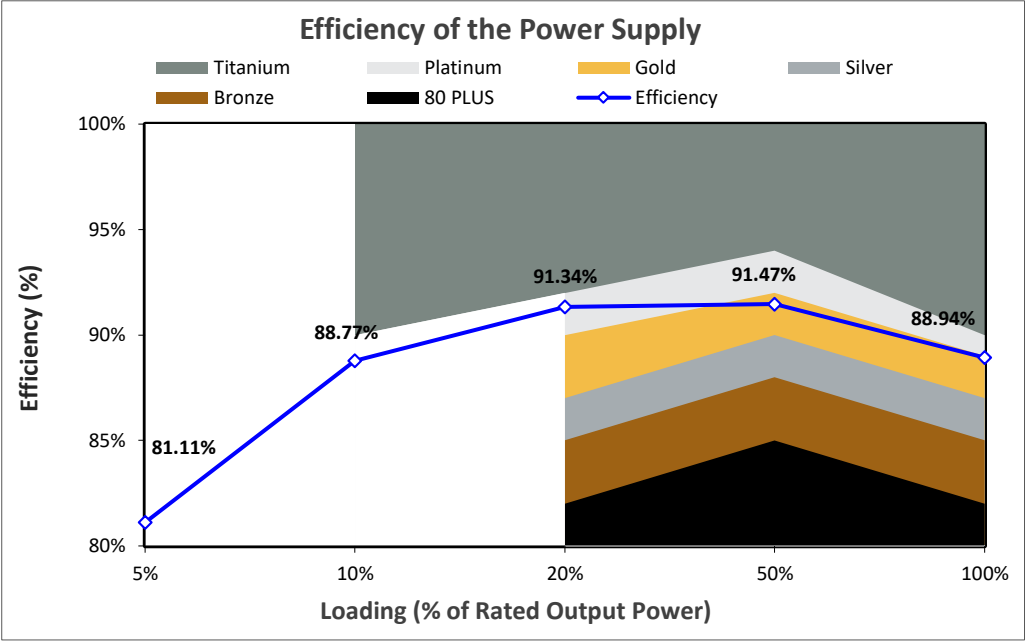
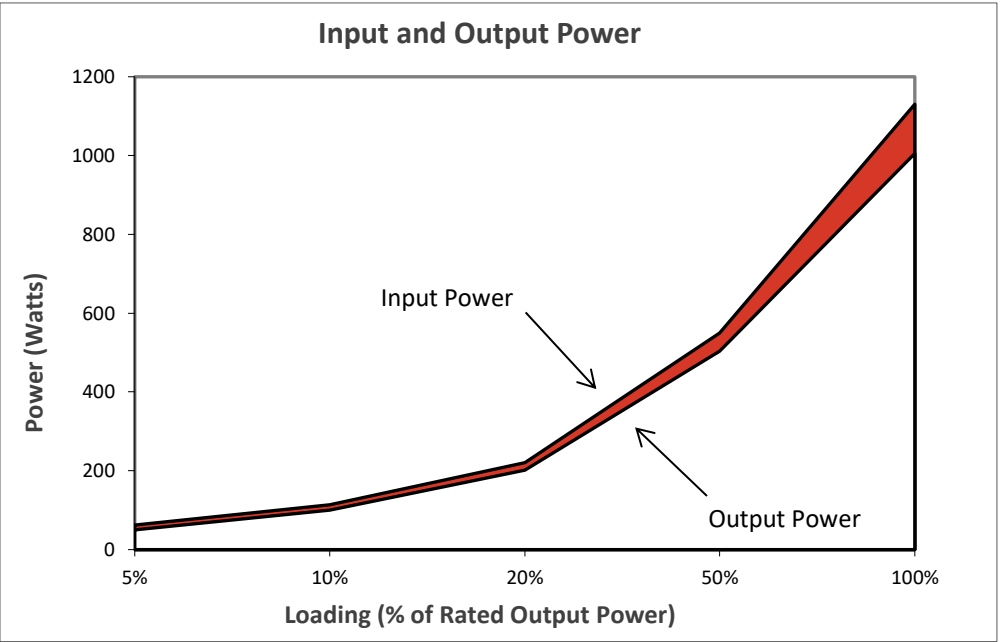
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	15-7.5	Amps
Input Frequency	60-50	Hz
Rated Output Power	1000	Watts

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



Input AC Current Waveform (ITHD = 9.78%, 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	5Vstb		
0.163	0.2578	43.30	0%	4.83	No-Load						
0.578	0.9333	14.61	5%	62.03	12.05/3.73	12.04/0.013	3.37/0.54	5.1/0.54	5.12/0.134	50.31	81.11%
1.005	0.9807	7.17	10%	113.36	12.06/7.45	12.07/0.027	3.36/1.08	5.09/1.08	5.11/0.268	100.63	88.77%
1.963	0.9766	13.45	20%	220.40	12.07/14.9	12.13/0.054	3.35/2.16	5.08/2.15	5.08/0.537	201.32	91.34%
4.823	0.9916	9.78	50%	550.02	12.08/37.25	12.33/0.134	3.32/5.39	5.04/5.39	5.01/1.341	503.11	91.47%
9.864	0.9962	6.96	100%	1130.38	12.09/74.5	12.61/0.268	3.27/10.78	4.99/10.78	4.89/2.681	1005.32	88.94%



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/>