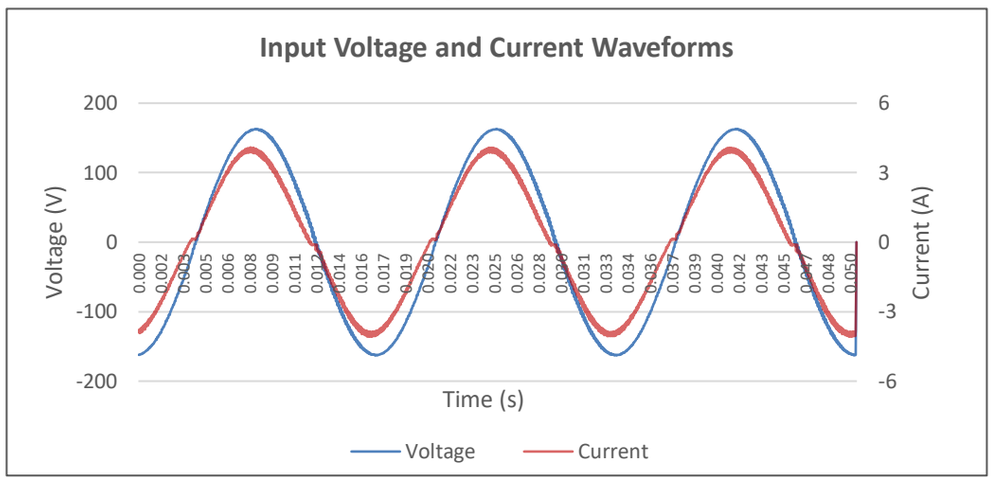
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**91.00%**
AVERAGE EFFICIENCY :	**86.41%**
80 PLUS COMPLIANT:	**Gold**

ID Number	7561
Manufacturer	SAMA
Model Number	HAT-550yzB1
Serial Number	N/A
Type	ATX12V, EPS12V
Test Date	9/17/24

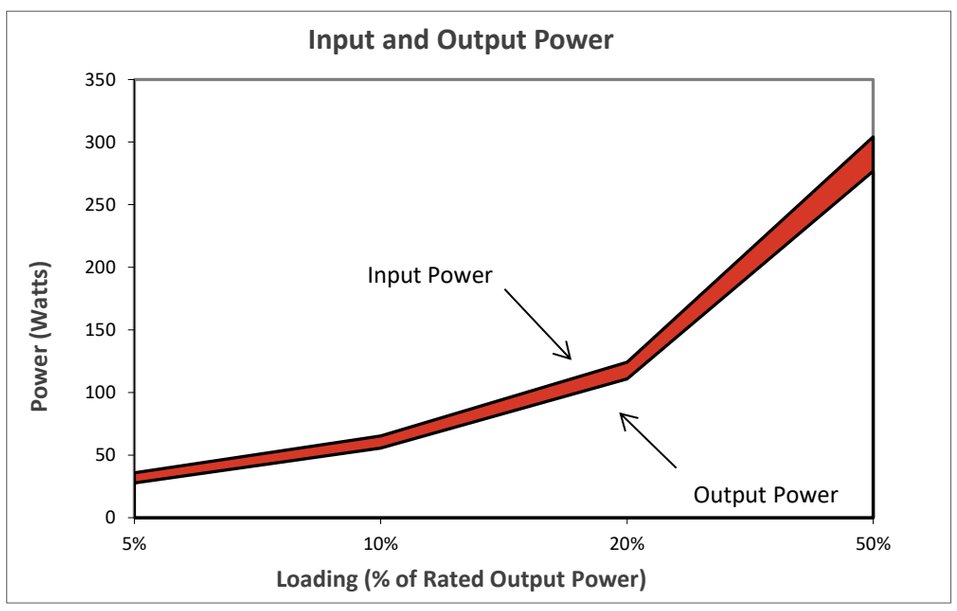
Rated Specifications	Value	Units
Input Voltage	100-240	**Volts**
Input Current	10-6	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	550	**Watts**

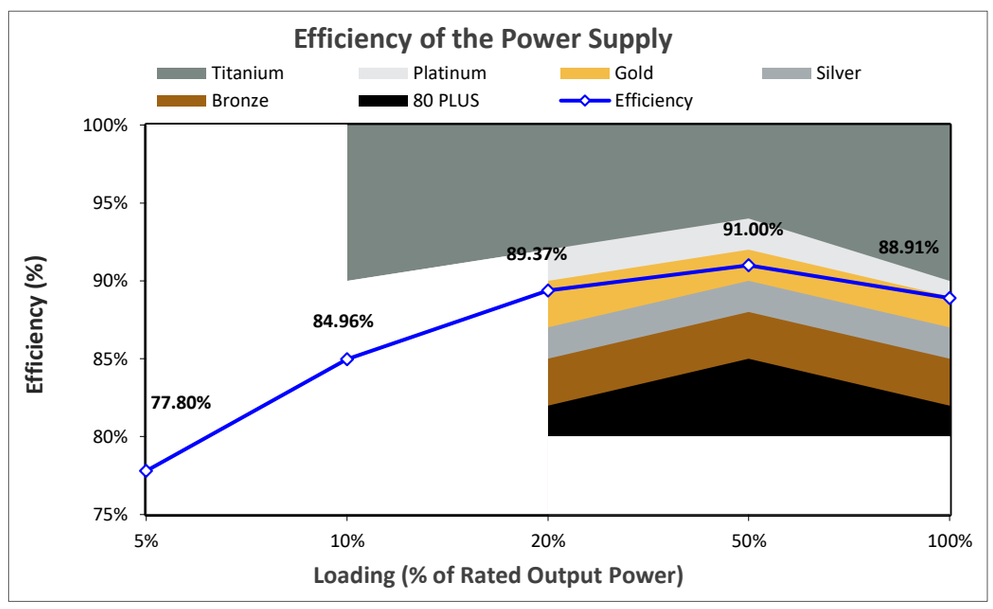
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 6.89%, 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		
0.117	0.4138	31.30	0%	5.56	No-Load						
0.357	**0.8682**	20.01	5%	35.67	12.1/1.89	12.52/0.017	3.33/0.5	5.04/0.5	5.1/0.103	27.75	**77.80%**
0.599	**0.9489**	15.46	10%	65.30	12.1/3.78	12.49/0.033	3.32/0.99	5.04/0.99	5.09/0.206	55.48	**84.96%**
1.094	**0.9870**	5.99	20%	124.09	12.1/7.56	12.43/0.066	3.31/1.99	5.03/1.99	5.08/0.413	110.90	**89.37%**
2.671	**0.9904**	6.89	50%	304.20	12.09/18.89	12.29/0.165	3.29/4.97	5/4.97	5.04/1.031	276.81	**91.00%**
5.429	**0.9938**	7.35	100%	620.84	12.08/37.78	12.04/0.33	3.24/9.94	4.96/9.94	4.97/2.061	551.97	**88.91%**





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/