80 PLUS Verification and Testing Report

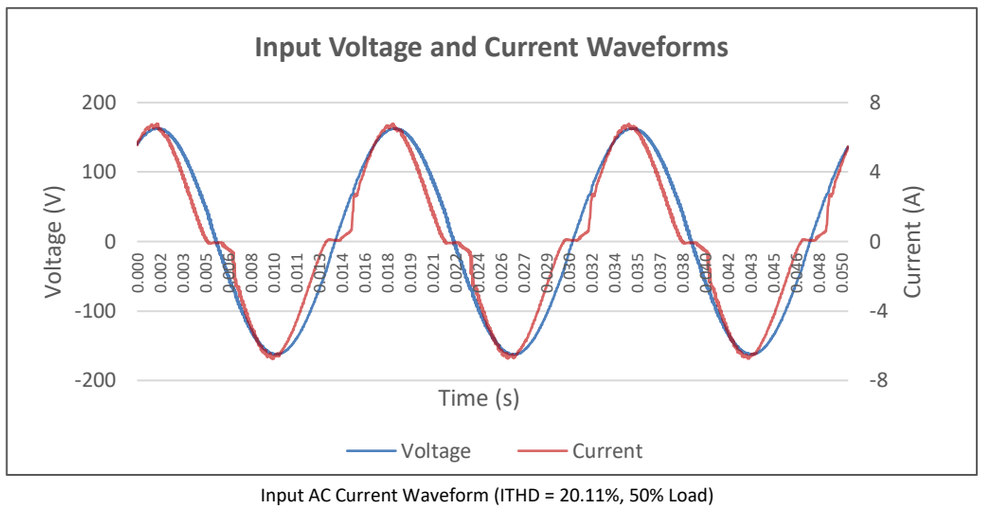
TYPICAL EFFICIENCY (50% Load):	**91.95%**
AVERAGE EFFICIENCY :	**87.41%**
80 PLUS COMPLIANT:	**Gold**



ID Number	7315
Manufacturer	CASTEC
Model Number	MN-P850-4167
Serial Number	N/A
Type	FLEX ATX
Test Date	3/6/24

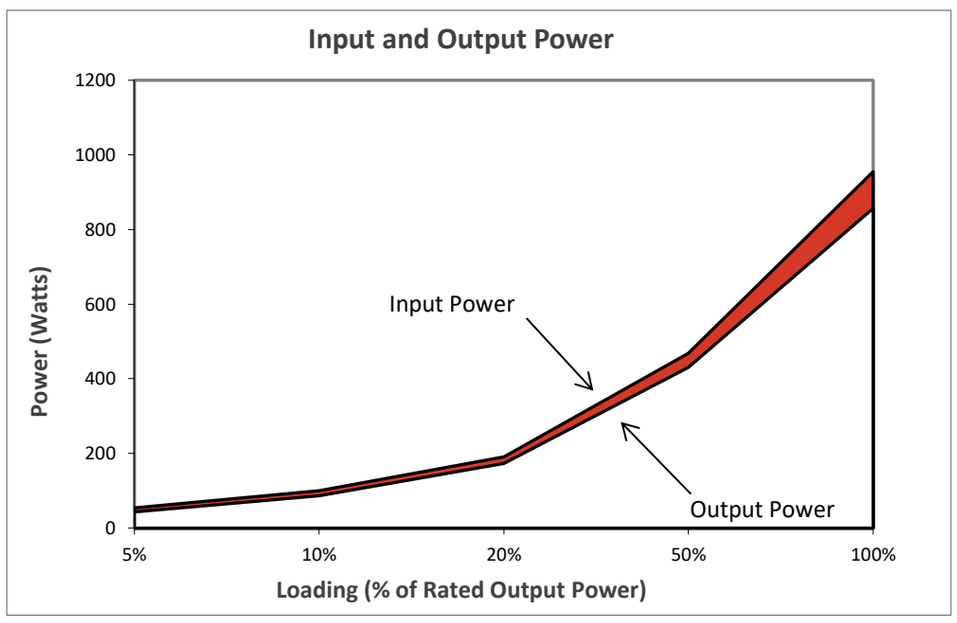
Rated Specifications	Value	Units
Input Voltage	100-240	**Volts**
Input Current	12-6	**Amps**
Input Frequency	60-50	**Hz**
Rated Output Power	850	**Watts**

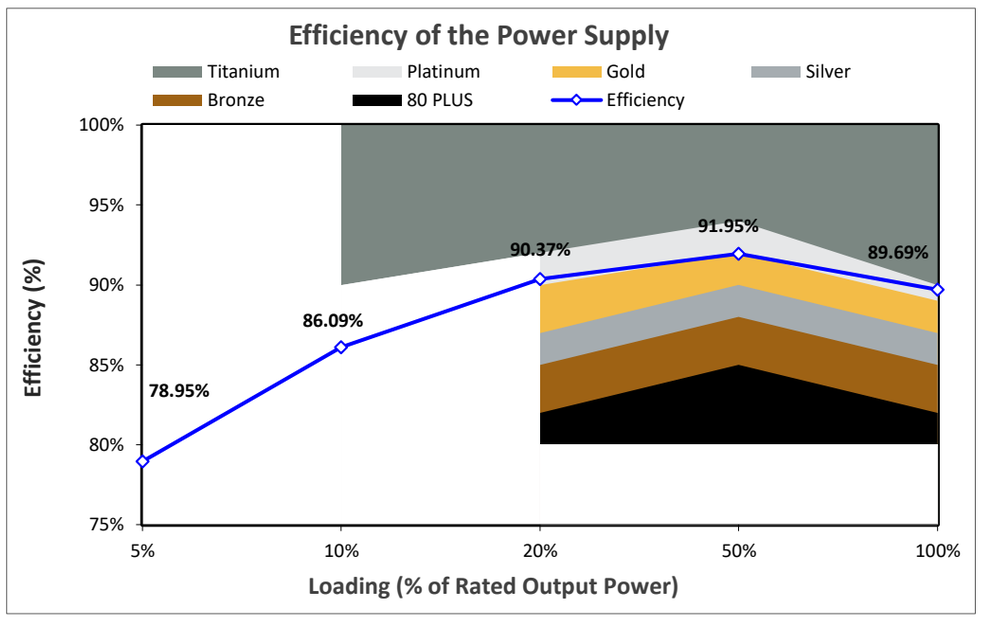
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 20.11%, 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		
0.103	0.6963	39.57	0%	**8.28**	**No-Load**						
0.523	**0.9094**	39.54	5%	**54.71**	12.19/3.1	12.06/0.013	3.39/0.55	5.09/0.55	5.13/0.11	**43.20**	**78.95%**
0.927	**0.9408**	33.57	10%	**100.32**	12.18/6.2	12.07/0.026	3.39/1.11	5.09/1.11	5.12/0.219	**86.36**	**86.09%**
1.755	**0.9466**	31.20	20%	**191.07**	12.18/12.4	12.11/0.053	3.38/2.22	5.08/2.22	5.11/0.438	**172.68**	**90.37%**
4.166	**0.9765**	20.11	50%	**467.98**	12.15/31	12.24/0.131	3.34/5.54	5.04/5.54	5.06/1.095	**430.31**	**91.95%**
8.395	**0.9890**	13.65	100%	**955.18**	12.12/62	12.45/0.263	3.28/11.08	4.97/11.08	4.98/2.188	**856.72**	**89.69%**





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/*