

80 PLUS Verification and Testing Report

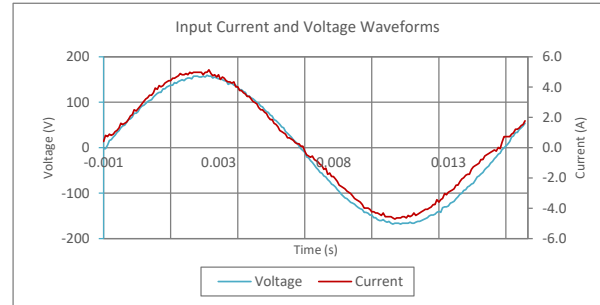
TYPICAL EFFICIENCY (50% Load):	87.45%
AVERAGE EFFICIENCY :	86.16%
80 PLUS COMPLIANT:	YES



ID Number	5462.1
Manufacturer	itek International
Model Number	ITPSEBS650
Serial Number	N/A
Year	2019
Type	ATX12V
Test Date	1/11/19

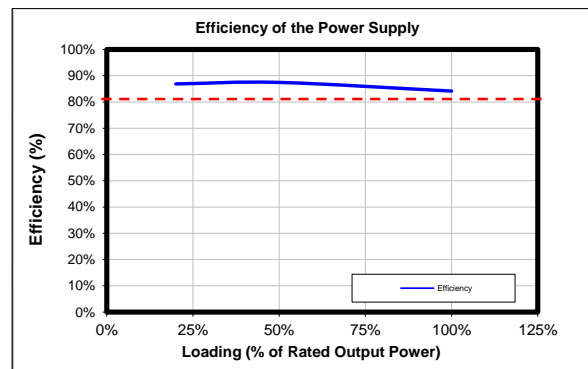
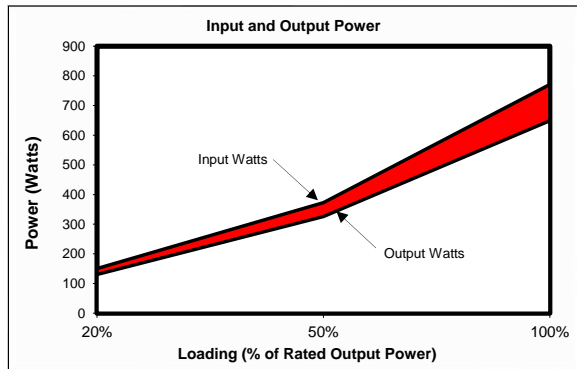
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	63-47	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (THD = 5.51%, 50% Load)

I _{RMS}	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		
1.01	0.68	16.15%	10%	78.62	12/4.74	11.5/0.03	3.42/0.81	5.16/0.81	5.19/0.25	65.50	83.31%
1.52	0.86	8.62%	20%	150.54	11.99/9.47	11.62/0.05	3.41/1.63	5.16/1.63	5.18/0.51	130.77	86.87%
3.35	0.97	5.51%	50%	373.00	11.94/23.73	12.05/0.13	3.39/4.07	5.17/4.04	5.15/1.27	326.18	87.45%
6.93	0.97	5.12%	100%	771.10	11.89/47.43	12.13/0.25	3.35/8.14	5.17/8.06	5.1/2.53	648.98	84.16%



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/>

