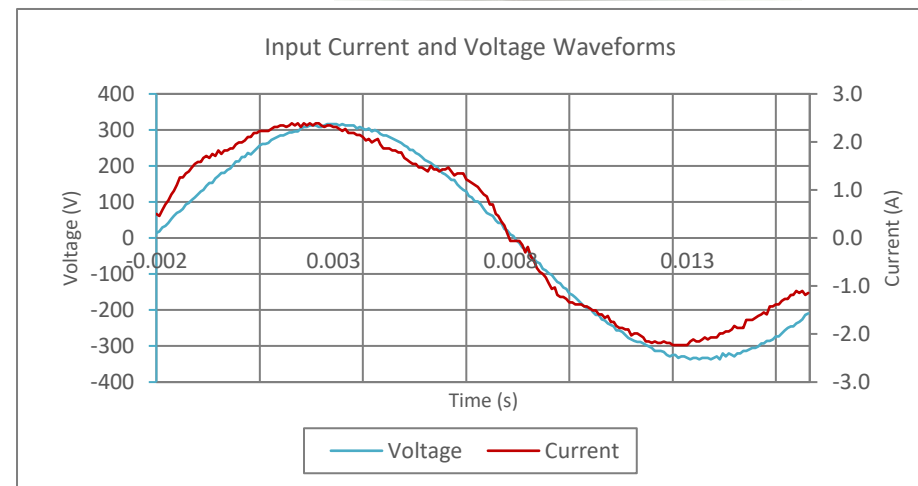


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	89.14%
AVERAGE EFFICIENCY :	87.37%
80 PLUS COMPLIANT:	YES



ID Number	EU-737
Manufacturer	SuperCase Computer Components Hellas Ltd
Model Number	FP-650W
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	9/29/20

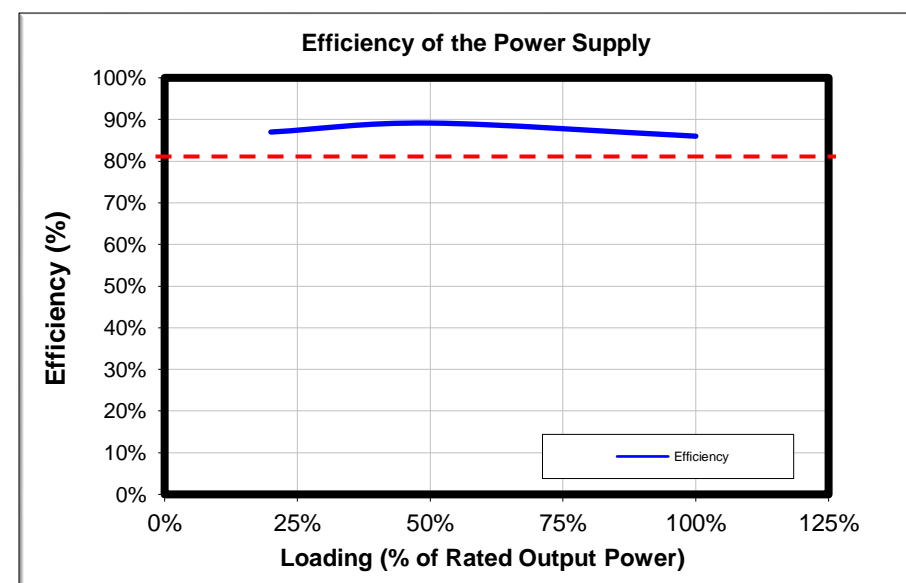
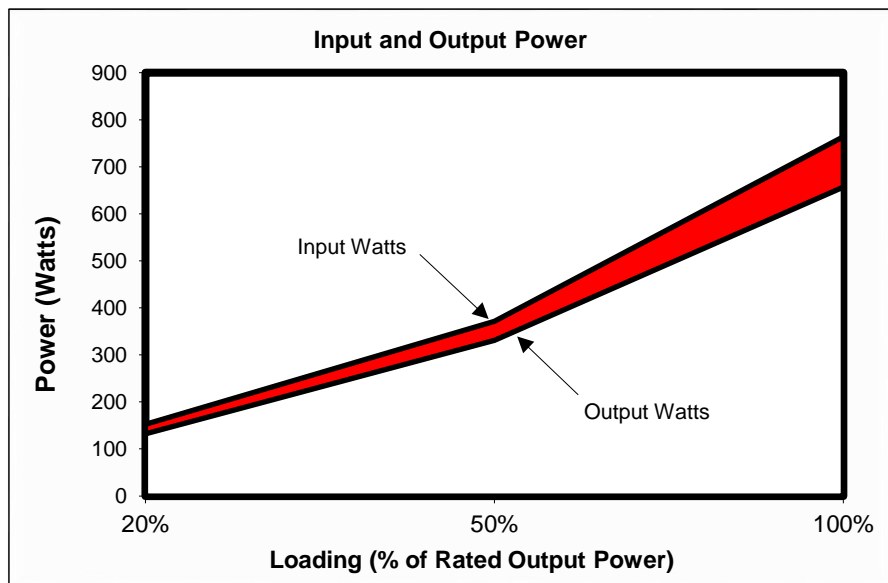


Rated Specifications	Value	Units
Input Voltage	230	Volts
Input Current	8/4	Amps
Input Frequency	60/50	Hz
Rated Output Power	650	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.

Input AC Current Waveform (ITHD = 10.55%, 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		
0.73	0.48	63.69%	10%	81.14	12.23/4.27	11.99/0.03	3.37/1.49	5.18/1.49	5.16/0.2	66.35	81.78%
0.98	0.68	53.74%	20%	152.68	12.22/8.57	12.03/0.06	3.36/2.98	5.17/2.96	5.15/0.4	132.80	86.98%
1.74	0.93	10.55%	50%	371.50	12.18/21.47	12.1/0.15	3.34/7.46	5.12/7.39	5.1/0.99	331.16	89.14%
3.40	0.98	5.94%	100%	763.80	12.11/42.9	12.25/0.3	3.31/14.92	5.03/14.76	5.02/1.99	656.81	85.99%



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/>

