## **80 PLUS Verification and Testing Report**

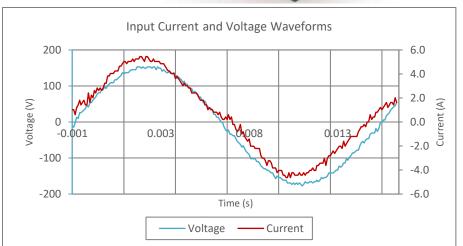
80 PLUS COMPLIANT:	YES	
AVERAGE EFFICIENCY:	89.88%	
TYPICAL EFFICIENCY (50% Load):	90.59%	



ID Number	5338.2
Manufacturer	NZXT
Model Number	NP-S650M
Serial Number	N/A
Year	2018
Туре	SFX
Test Date	7/26/18

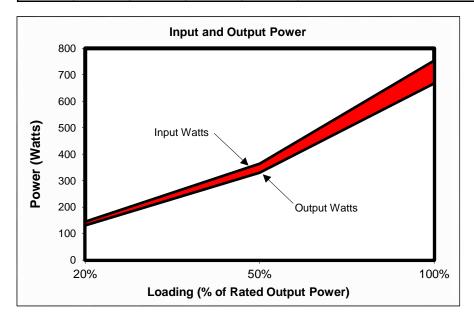
Rated Specifications	Value	Units		
Input Voltage	100-240	Volts		
Input Current	8-4	Amps		
Input Frequency	50-60	Hz		
Rated Output Power	650	Watts		

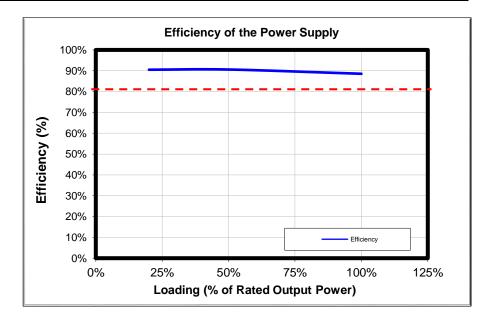
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 10.49%, 50% Load)

ı	PF		Lood	Input	DC Terminal Voltage (V)/ DC Load Current (A)					Output	Efficiency
RMS	PF	ITHD	Load	Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5Vsb	Watts	Efficiency
0.81	0.81	10.97%	10%	75.38	11.99/4.59	11.96/0.03	3.32/1.02	5.03/1.02	5.12/0.25	65.19	86.48%
1.37	0.92	10.46%	20%	144.56	12.03/9.19	11.99/0.05	3.32/2.04	5.04/2.03	5.11/0.51	130.82	90.50%
3.25	0.97	10.49%	50%	364.00	12.13/23.01	12.19/0.13	3.34/5.11	5.03/5.07	5.08/1.27	329.74	90.59%
6.63	0.99	10.63%	100%	753.70	12.3/45.97	12.67/0.25	3.37/10.23	5.04/10.12	5.04/2.54	667.39	88.55%







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. <a href="http://www.80plus.org/">http://www.80plus.org/</a>

