80 PLUS V	erification a	and Testir	ng Report	
TYPICAL EFFICIENCY (50% Load): AVERAGE EFFICIENCY : 80 PLUS COMPLIANT:			91.07% 89.58% YES	
				in the second seco
Ecos ID #	3299.3			Input Current and Voltage Waveforms
Manufacturer Model Number	Antec,Inc TP-650C			200
Serial Number	CR08A80840025	:		150
Year	2012	,		100
Туре	ATX12V,EPS12	/		€ 50 8 0 9 -50 9 0,003 0.006 0.009 0.012 0.015
Test Date	10/2/12			
	·			-100
Rated Spe	Value	Units	-150 -200	
Input Voltage		100-240	Volts	200

Rated Specifications	Value	Units				
Input Voltage	100-240	Volts				
Input Current	9-4.5	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 = 5.14%, 50% Load)

Current

Time (s)

IRMS	PF	I _{THD} (%)	Load	Input	DC Terminal Voltage (V)/ DC Load Current (A)				Output	Efficiency	
Α			(%)	Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5Vsb	Watts	%
0.71	0.98	8.41%	10%	79.77	12.3/4.6	11.7/0	3.4/1	5.1/1	5/0.2	66.72	83.65%
1.32	0.99	6.47%	20%	150.55	12.3/9.2	11.7/0.1	3.4/2	5.1/2	5/0.4	133.24	88.50%
3.18	1.00	5.14%	50%	364.60	12.2/23	11.9/0.1	3.4/5.1	5.1/5.1	5/1.1	332.03	91.07%
6.46	1.00	5.17%	100%	741.50	12.2/46.1	12.3/0.3	3.4/10.2	5.1/10.2	5/2.1	661.18	89.17%







PLUG LOAD Solutions 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/*



Current (A)