80 PLUS Verification and Testing Report

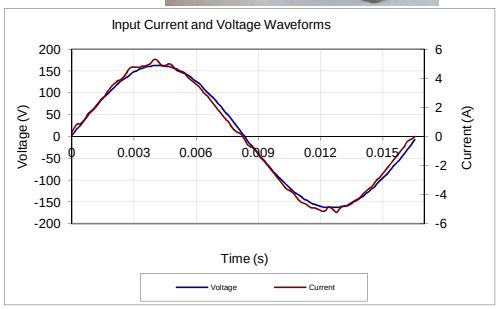
TYPICAL EFFICIENCY (50% Load):	**91.69%**
AVERAGE EFFICIENCY :	**90.24%**
80 PLUS COMPLIANT:	**YES**



Ecos ID #	3799
Manufacturer	Thermaltake Technology Co., Ltd.
Model Number	TPG-0750M Toughpower Grand 750W
Serial Number	NA
Year	2013
Type	ATX12V
Test Date	11/18/13

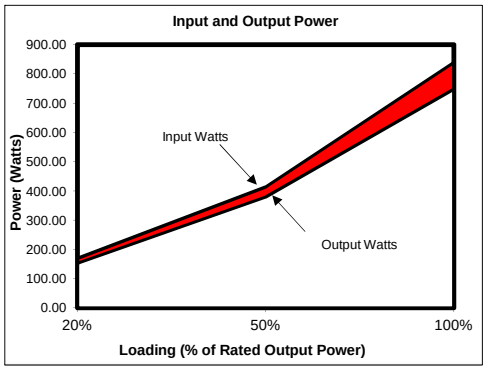
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	**750**	**Watts**

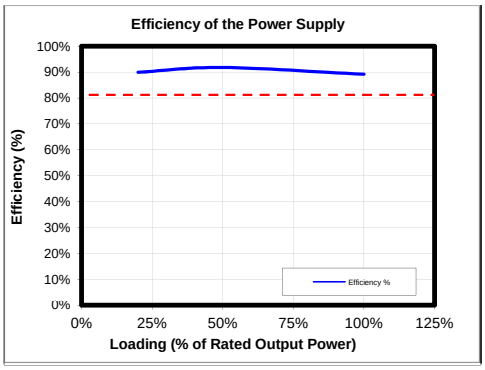
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 4.1%, 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	5Vsb		
0.82	0.94	8.55%	10%	88.69	12.2/5.2	12.2/0.1	3.3/1.3	5/1.3	5/0.3	76.53	**86.29%**
1.50	0.99	3.25%	20%	169.77	12.2/10.4	12.2/0.1	3.3/2.6	5/2.6	5/0.5	152.60	**89.89%**
3.61	1.00	4.10%	50%	413.80	12.1/25.9	12.2/0.3	3.3/6.5	5/6.5	4.9/1.3	379.42	**91.69%**
7.36	0.99	5.10%	100%	839.60	12/51.6	12.3/0.7	3.3/13	4.9/12.9	4.8/2.5	748.36	**89.13%**





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/*

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