

80 PLUS Verification and Testing Report

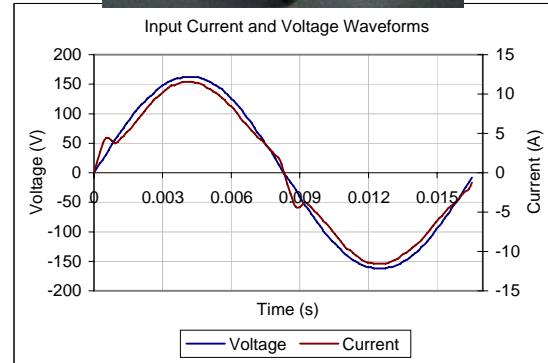
TYPICAL EFFICIENCY (50% Load):	86.48%
AVERAGE EFFICIENCY :	84.80%
80 PLUS COMPLIANT:	YES



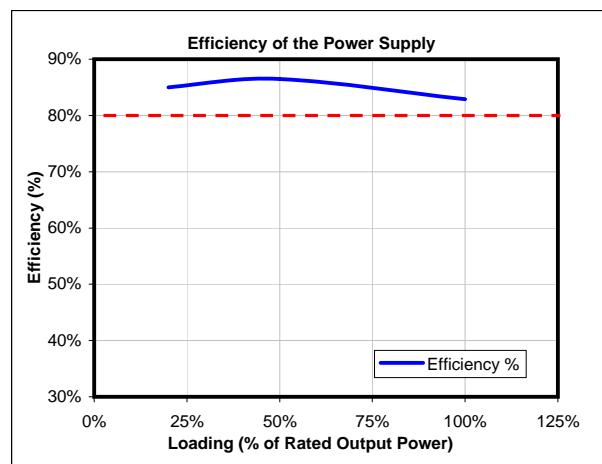
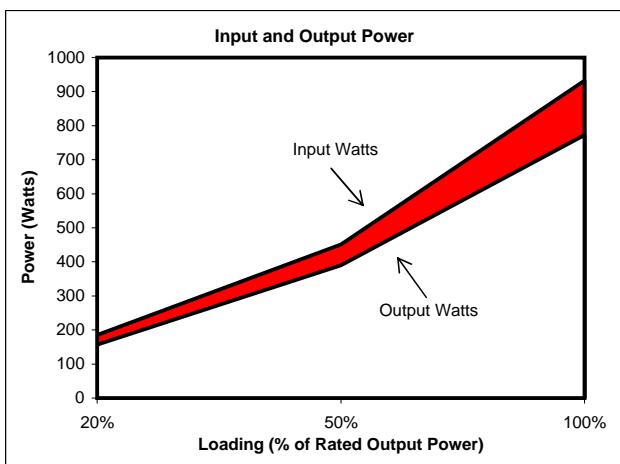
Ecos ID #	947
Manufacturer	ZALMAN
Model Number	ZM770-XT
Serial Number	NA
Year	2008
Type	ATX12V
Test Date	9/29/2008

Rated Specifications		Value	Units
Input Voltage		100-240	Volts
Input Current		11.5	Amps
Input Frequency		50-60	Hz
Rated Output Power		770	Watts

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



I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of 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		
1.64	0.98	8.4%	20%	Light	185	12.3/10.3	12/0.1	3.3/3.3	5.1/3.3	5.1/0.4	157	85.02%
3.94	1.00	4.8%	50%	Typical	451	12.2/25.7	12/0.3	3.3/8.2	5/8.2	5/1.1	390	86.48%
8.11	1.00	6.1%	100%	Full	932	12.1/51.3	12.1/0.7	3.3/16.3	5/16.4	5/2.1	773	82.91%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.



Tested by Electric Power Research Institute, Knoxville, TN.