80 PLUS Verification and Testing Report

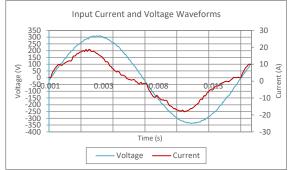
TYPICAL EFFICIENCY (50% Load):	90.21%
AVERAGE EFFICIENCY:	88.75%
80 PLUS COMPLIANT:	YES



ID Number	SO-1243		
Manufacturer	Zippy Technology Corp		
Model Number	M1P-2420V		
Serial Number	N/A		
Year	2017		
Туре	1U		
Test Date	03/15/17		

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7-3	Amps
Input Frequency	47-63	Hz
Rated Output Power	420	Watts

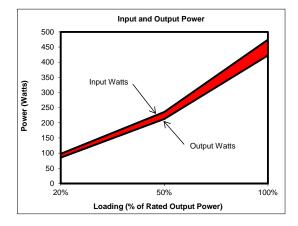
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

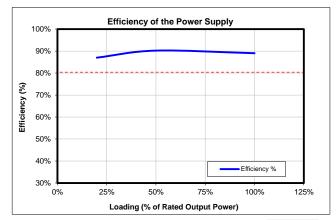


Input AC Current Waveform (ITHD = 17.55%, 50% Load)

I _{RMS}	PF	I _{THD} (%)	Load	Fraction Input		External	DC Terminal Voltage (V)/ DC Load Current (A)		Output	
Α			(%)	of Load	Watts	Fan (W)*	12V	5Vsb	Watts	Efficiency %
0.33	0.70	34.35	10%	Low	52	5.28	12.14/3.37	5.18/0.34	43	81.96%
0.52	0.82	18.09	20%	Light	98	5.28	12.13/6.73	5.17/0.67	85	87.01%
1.11	0.93	17.55	50%	Typical	236	5.28	12.12/16.84	5.15/1.68	213	90.21%
2.16	0.96	9.19	100%	Full	474	5.28	12.11/33.45	5.11/3.37	422	89.03%

^{*} Fan power is not included in the efficiency calculations







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/

