

TEST REPORT


Client : Alpha Emptor Limited
Address : 1508 Eastern Tower, Yihai Square, Commercial Building North
Chuang Ye Road, Nanshan, Shenzhen.518054, China
Report Number : KA0809001
Total Page : 5 Pages
Issue Date : September 17, 2008

Sample Description

Product : PowaSava V5
Model Name : PS5
Sample No. : #1
Date Received : August 28, 2008
Date Test Conducted : August 28, 2008 to September 12, 2008
Testing Laboratory : SHENZHEN EMTEK CO., LTD.
Address : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,
Guangdong, China
Test Standards : --
Test Result : See below test items for details
Remark : 1) When determining for test conclusion, measurement uncertainty
of tests has been considered.
2) This report shall not be reproduced except in full without the
written approval of the testing laboratory.

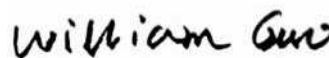
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Tested by:



Jesse Liu

Approved by:



William Guo



1. **Sample status before test** The PowaSava V5 is structurally and functionally normal before testing.

2. **Test procedure**

2.1. This test is to inspect the variance in current and power with the use of PowaSava V5.

2.2. Test circuit drawing

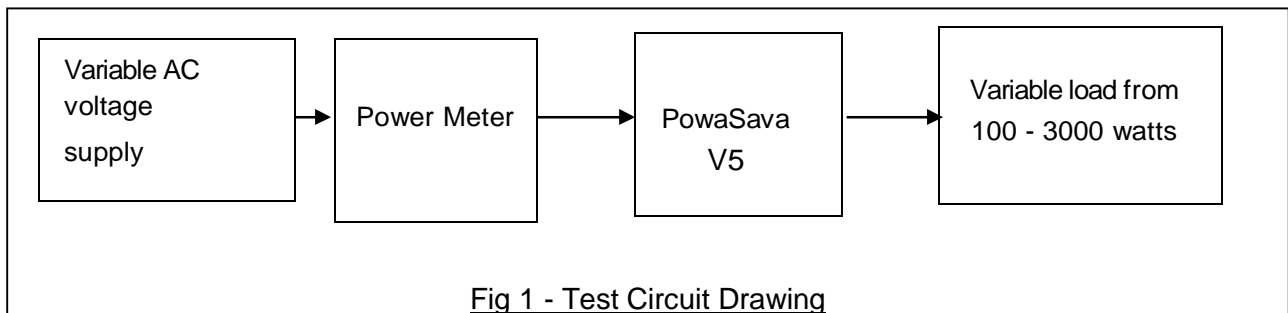


Fig 1 - Test Circuit Drawing

2.3. Install the test circuit (according to the appended pictures), operate the Variable AC voltage supply, adjust the output voltage as 220V, 230V, 240V and 250V record the current and power variance (Please refer to appended table).

Table 1: Load with Hair dryer				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	1721	1890	2053	2219
With PowaSava V5 P(W)	1702	1692	1708	1840
Save power Percentage	1.10%	10.48%	16.80%	17.08%

Table 2: Load with Small Oven				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	1161	1268	1367	1509
With PowaSava V5 P(W)	1131	1126	1174	1234
Save power Percentage	2.58%	11.20%	14.12%	18.22%

Table 3: Load with Fan Heater				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	1999	2181	2353	2555
With PowaSava V5 P(W)	1974	1937	1942	2101
Save power Percentage	1.25%	11.19%	17.47%	17.77%

Test Items:

Report Number: KA0809001

Table 4: Load with Direct Heater				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	707	776.7	844	913
With PowaSava V5 P(W)	695	692	718.4	759.3
Save power Percentage	1.70%	10.91%	14.88%	16.83%

Table 5: Load with Large Oven				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	1438	1573	1707	1864
With PowaSava V5 P(W)	1397	1396	1445	1532
Save power Percentage	2.85%	11.25%	15.35%	17.81%

Table 6: Load with Small Immersion Heater				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	719	787	852	922.7
With PowaSava V5 P(W)	702	701.7	733.6	773
Save power Percentage	2.36%	10.84%	13.9%	16.22%

Table 7: Load with Large Immersion Heater				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	892	963	1050	1132
With PowaSava V5 P(W)	872	868	875.8	948.2
Save power Percentage	2.24%	9.87%	16.59%	16.24%

Table 8: Load with Toaster				
Voltage supply(V)	220	230	240	250
Without PowaSava V5 P(W)	755	825	898	1051
With PowaSava V5 P(W)	750	763	792	918
Save power Percentage	0.66%	7.25%	11.80%	12.65%

Test Items:

Report Number: KA0809001

Summary:

- a. Using the PowaSava V5 with a Hair Dryer, following power saving was achieved: 1.10% (220V), 10.48% (230V), 16.80% (240V), and 17.08% (250V).
- b. Using the PowaSava V5 with a Small Oven, following power saving was achieved: 2.58% (220V), 11.20% (230V), 14.12% (240V), and 18.22% (250V).
- c. Using the PowaSava V5 with a Fan Heater, following power saving was achieved: 1.25% (220V), 11.19% (230V), 17.47% (240V), and 17.77% (250V).
- d. Using the PowaSava V5 with a Direct Heater, following power saving was achieved: 1.70% (220V), 10.91% (230V), 14.88% (240V), and 16.83% (250V).
- e. Using the PowaSava V5 with a Large Oven, following power saving was achieved: 2.85% (220V), 11.25% (230V), 15.35% (240V), and 17.81% (250V).
- f. Using the PowaSava V5 with Small Immersion Heater, following power saving was achieved: 2.36% (220V), 10.84% (230V), 13.9% (240V), and 16.22% (250V).
- g. Using the PowaSava V5 with Large Immersion Heater, following power saving was achieved: 2.24% (220V), 9.87% (230V), 16.59% (240V), and 16.24% (250V).
- h. Using the PowaSava V5 with Toaster, following power saving was achieved: 0.66% (220V), 7.25% (230V), 11.80% (240V), and 12.65% (250V).

Using the PowaSava V5 does not affect the equipment under test (EUT).

From the result of the performance test we can confirm that the PowaSava V5 reduces power consumption of an appliance without any noticeable change in appliance performance.

Equipment

Report Number: KA0809001

Instrument I.D.	Instrument Type	Range Used	Make and Model	Calibration Date	
				Last	Due
ES-095	Power meter	20A, 600V	EVERFINE, YF9901	2007-09-26	2008-09-25

Pictures

Report Number: KA0809001



Fig. sample and load