




TEST REPORT

Details of Applicant	Applicant	KESECO Co., Ltd.		
	Address	8F, Namyoung Bldg., 284-49 SungSuDong-2Ga, SungDong-Gu, Seoul, South Korea		
	Telephone No.	82-2-3409-1105	FAX No.	82-2-3409-2106
Details of Manufacturer	Kind of Product	Power Saving Device		
	Model Name	UC-50	Serial No.	N/A
	Manufacturer	KESECO Co., Ltd.		
	Address	8F, Namyoung Bldg., 284-49 SungSuDong-2Ga, SungDong-Gu, Seoul, South Korea		
Testing Laboratory	Test Report No.	F690501/RF-SAF004580		
	Name	SGS Korea Co., Ltd. (Gunpo Laboratory)		
	Address	18-34, Sanbon-dong, Gunpo-city, Gyeonggi-do, Korea		
	Telephone No.	82-31-428-5700	FAX No.	82-31-427-2373
	Date of Test(s)	2011. 09. 02 ~ 2011. 09. 05		
	Date of Issue	2011. 10. 04		
	Standard	Test Condition from applicant		
	Test Result	Complied		
<div> <div>Tested by</div> <div>  Aaron Kang </div> </div> <div> <div>Approved by</div> <div>  Yuta Kim </div> </div>				
<div> <div>SGS Korea Co., Ltd.</div>  </div>				

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1. Test Environment

- Ambient Temperature: 25 °C - 30 °C
- Relative Humidity: 40 % R.H. - 60 % R.H.

2. Test Instruments

Name of instruments	Model name	Serial No.	Manufacturer	Calibration Data
PRECISION POWER ANALYZER	PPA2510	247	KINETIQ	2011-01-07 ~ 2012-01-07
DIGITAL HYGRO-TERMOGRAPH	DHT-1	N/A	DAEYOON Corp.	2011-01-06 ~ 2012-01-06
STOP WATCH	W073-400	710378	SEIKO	2011-01-05 ~ 2013-01-05

3. Test Condition

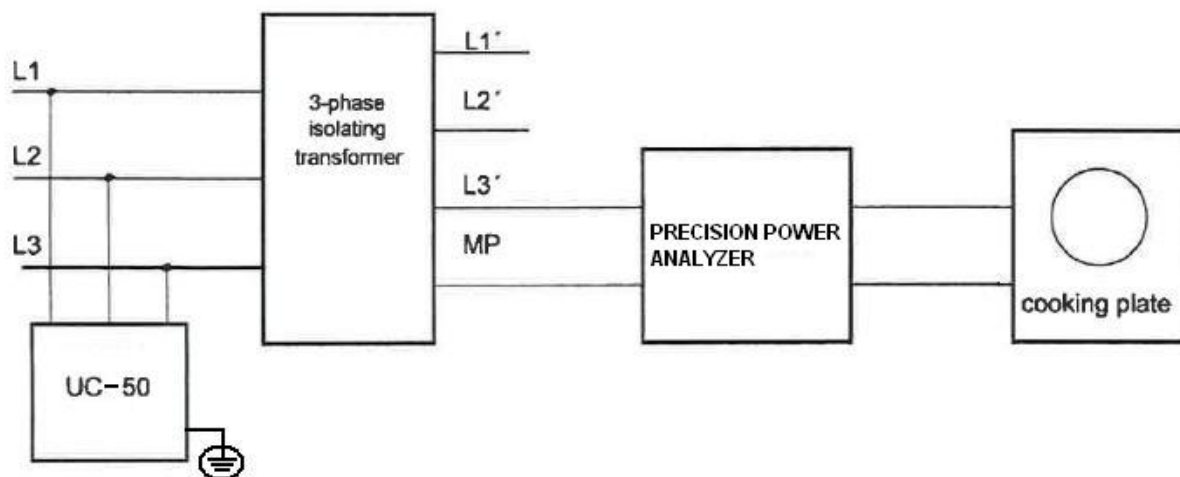
Process	Time	Remark
Pre-heating	(On:30min, Off:10min)* 1	120°C, 1000ml
Before	(On:30min, Off:10min)* 2	120°C, 1000ml
Install	10 min	UC-50
Adaptation 1	more than 12 hours	120°C, 1000ml
Adaptation 2		
Adaptation 3		
Pre-heating	(On:30min, Off:10min)* 1	120°C, 1000ml
After	(On:30min, Off:10min)* 2	120°C, 1000ml

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4. Photograph of Product



5. Test Set-Up



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6. Test Result

6.1 Before installation

6.1.1 First measuring without UC-50

Time	V	Hz	A	Wh
PM 2:40:00	225.7	59.98	0.0	0
PM 2:45:00	217.5	59.95	4.3	76.40998331
PM 2:50:00	220.5	60.00	3.0	138.0598939
PM 2:55:00	226.5	59.99	0.0	182.1972804
PM 3:00:00	218.2	59.99	3.9	226.2257165
PM 3:05:00	226.3	59.99	0.0	268.7902074
PM 3:10:00	222.1	59.98	2.3	① 313.0049893

6.1.2 Second measuring without UC-50

Time	V	Hz	A	Wh
PM 3:20:00	227.5	59.99	0.0	0
PM 3:25:00	218.1	59.98	4.3	76.70668205
PM 3:30:00	219.8	59.96	3.5	142.5415251
PM 3:35:00	219.1	60.00	3.7	190.7165219
PM 3:40:00	225.6	59.98	1.7	239.873587
PM 3:45:00	224.9	59.98	2.1	289.535204
PM 3:50:00	217.1	59.99	4.3	② 338.2155585

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6.2 After installation

6.2.1 First measuring with UC-50

Time	V	Hz	A	Wh
PM 2:40:00	226.4	60.00	0.0	0
PM 2:45:00	218.1	60.00	4.3	76.53511744
PM 2:50:00	226.2	60.02	0.0	137.6314804
PM 2:55:00	218.6	60.02	3.9	179.2413911
PM 3:00:00	220.0	60.00	3.2	224.8650468
PM 3:05:00	226.4	60.02	0.0	265.7384133
PM 3:10:00	218.3	60.00	4.0	③ 308.2110326

6.2.2 Second measuring with UC-50

Time	V	Hz	A	Wh
PM 3:20:00	226.6	59.99	0.0	0
PM 3:25:00	218.0	59.99	4.3	76.04603694
PM 3:30:00	220.5	60.02	3.0	132.9507811
PM 3:35:00	221.6	60.00	2.5	174.5863011
PM 3:40:00	219.7	60.02	3.5	216.0700045
PM 3:45:00	221.8	60.00	2.5	257.4167623
PM 3:50:00	224.0	59.99	2.4	④ 299.0127759

6.3 Calculation

$$\{((① + ②) - (③ + ④)) / ((① + ②) \times 100 \% = 6.756042856 \%$$

7. Photograph under Test



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