



Your Ref: -

Our Ref: CM-8500025239/GP

Date: 24/10/2018

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TEST REPORT

Subject : Heating & High Voltage Test of Wireless Electrical Outlet with Light Bulb

Tested for : **Ketagon Pte Ltd**
1 Kaki Bukit Ave 3, KB-1, #03-07
Singapore 416087

Place of testing : Electrical Testing Lab in Setsco Services Pte Ltd
18, Teban Gardens Crescent, S608925

No. of pages In this report : 9

Method of Test : Refer to page 2 of 9

Sample received date : 08/10/2018

Testing Period : 15/10/2018 to 16/10/2018

Description of Sample

Product : Wireless Electrical Outlet with Light Bulb

Brand Name : Nexus

Dimension : W370mm x H35mm x D270mm

Light Bulb : Osram LED AC02730 (E27 10.5W 2700K 1060lm)

Quantity Tested : 01 pc

Gavin Pek
Testing Officer

Edwin Leong
Principal Engineer
Electrical & Electronics Test Lab
Mechanical Technology Division

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Method of Test**Heating Test**

1. Fixed thermocouples on front and rear of the sample. (Refer to Appendix III for positions of thermocouples)
2. Place the sample on a standing position with rear unblock. (Refer to Appendix III)
3. Supply 230V~ 50Hz to the sample.
4. Record the temperature rise upon reaching steady state.
5. Switch off the sample and allow the sample to cool down to ambient temperature.
6. Place the sample on a lying position. (Refer to Appendix III)
7. Repeat step 3 to 4.

High Voltage Test

1. Placed aluminium foil on top of the glass panel of the sample and placed load on top of the aluminium foil. (Refer to Appendix IV)
2. High Voltage tester was connected between supply of sample and conductive load on top of the aluminium foil.
3. High voltage of 1250V AC 50Hz was applied to the sample for 1 minute. Record results.

Test Environment

Ambient Temperature : $23.0^{\circ}\text{C} \pm 2.0^{\circ}\text{C}$

Relative Humidity : $50\% \pm 5\%$

Results

Temperature Rise

Thermocouple Point	Temperature Rise		Remark
	Sample at Standing Position (°C)	Sample at Lying Position (°C)	
1	0.2	0.9	
2	1.0	1.2	
3	5.5	6.1	
4	4.3	5.2	
5	0.7	1.5	
6	0.6	1.7	
7	0.0	1.0	
8	0.4	2.5	
9	1.1	3.8	
10	4.3	6.9	
11	1.8	4.1	
12	0.5	2.4	
13	0.1	1.9	

High Voltage Test

Test voltage applied between	Voltage AC (V)	Duration (minute)	Breakdown (Y/N)	Leakage Current (mA)
Supply and glass panel covered with aluminium foil	1250	1	N	0.33

Remarks

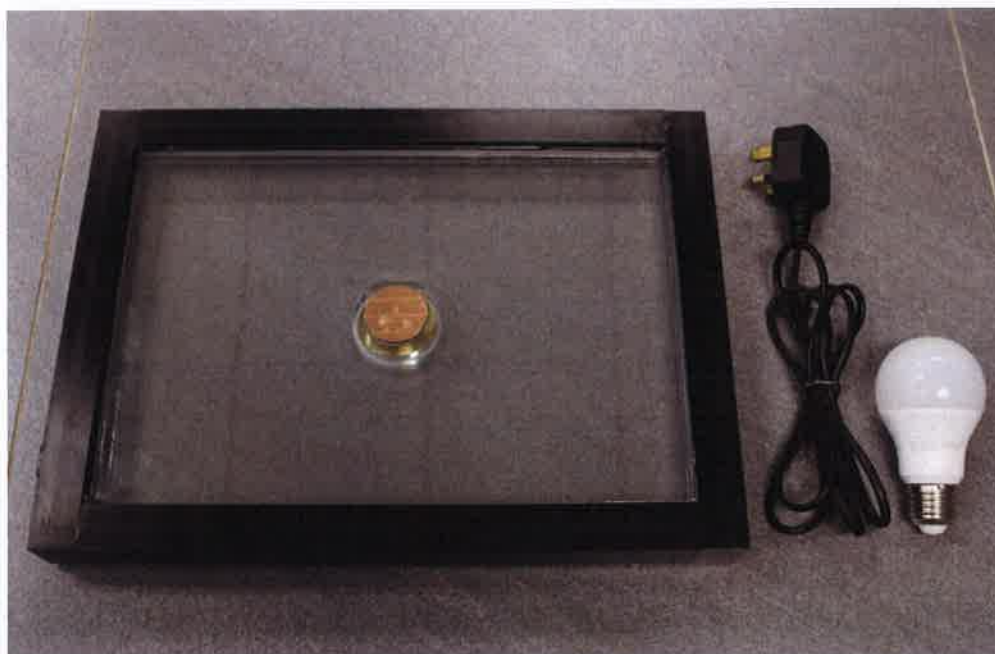
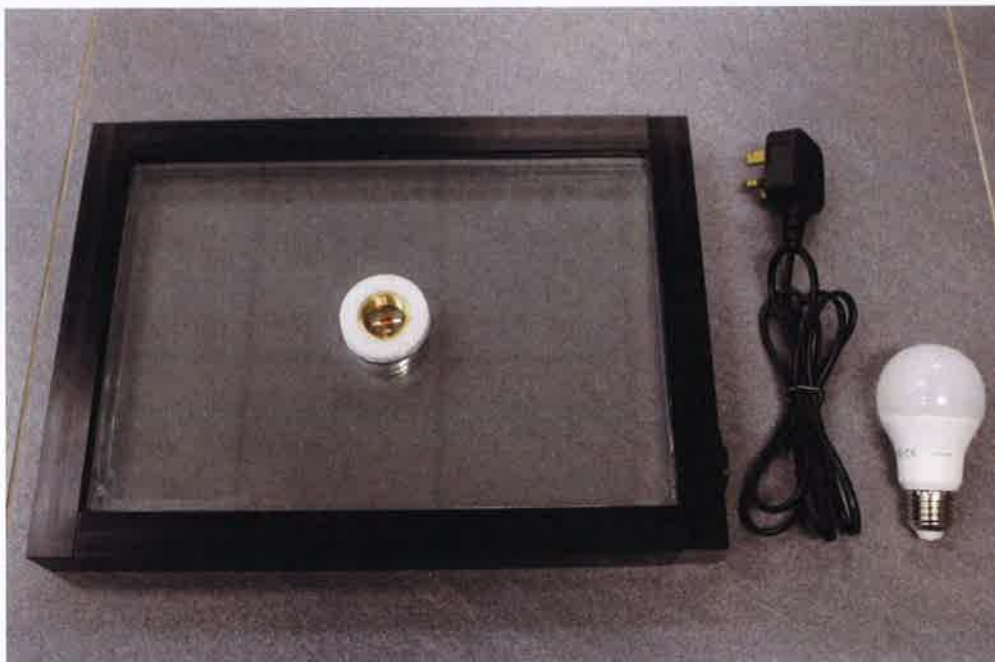
1. Test methods were discussed and agreed by client.
2. Test results were based on sample submitted by the client.

Appendix I**Equipment used**

Equipment Name	Brand	Serial No.	Cal date	Due date
Digital power meter	Yokogawa	27E514542	03 Jul 2018	03 Jul 2019
			13 Jul 2018	13 Jul 2019
AC power supply	Kikusui	KF000512	N/A	N/A
Temperature logger	Yokogawa	S5T513146	13 Sep 2018	13 Sep 2019
High Voltage Tester	Kikusui	KD001780	23 Aug 2018	23 Aug 2019
Temperature & humidity meter	testo	40372531	20 Jun 2018	20 Jun 2019

Appendix II

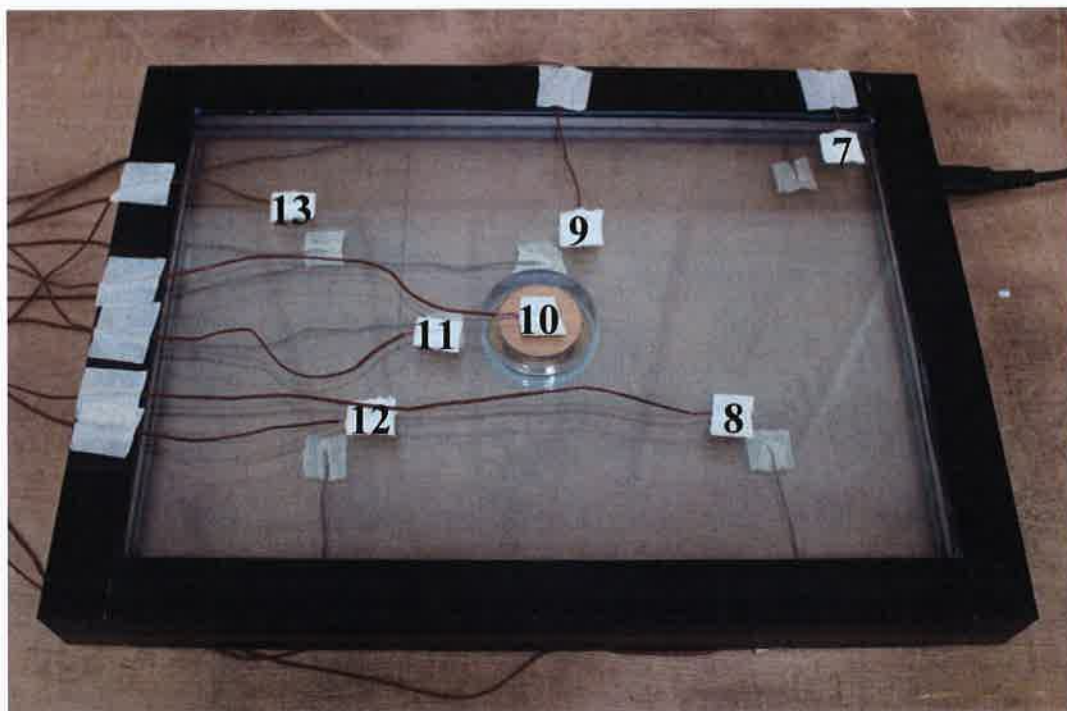
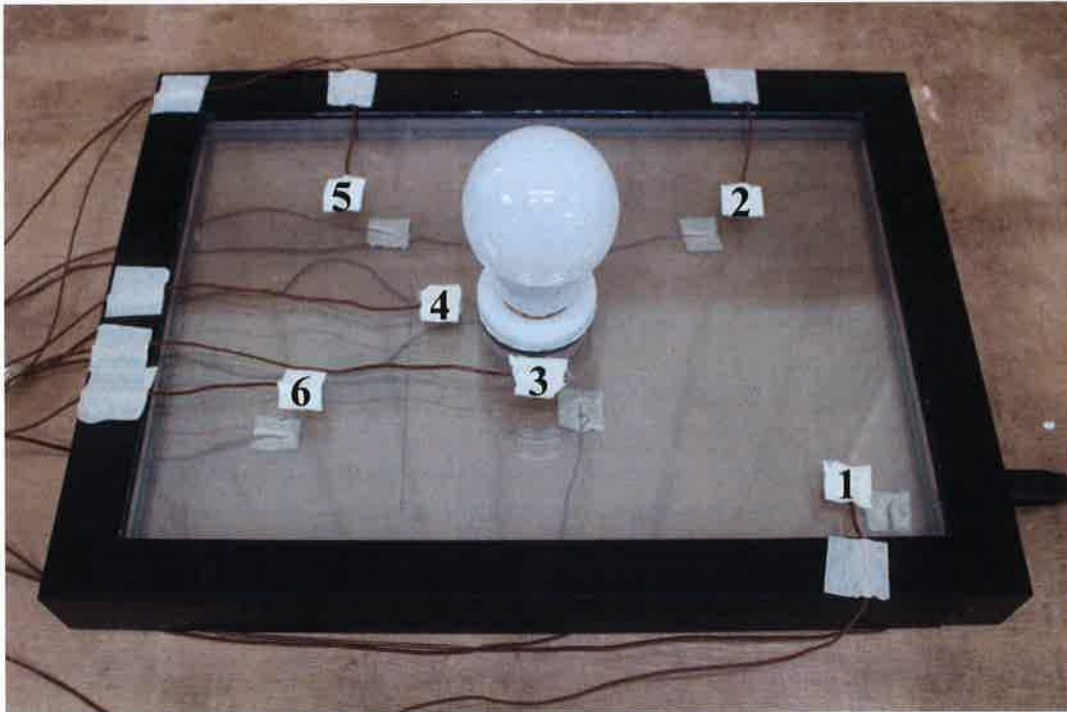
General views of sample



Appendix III

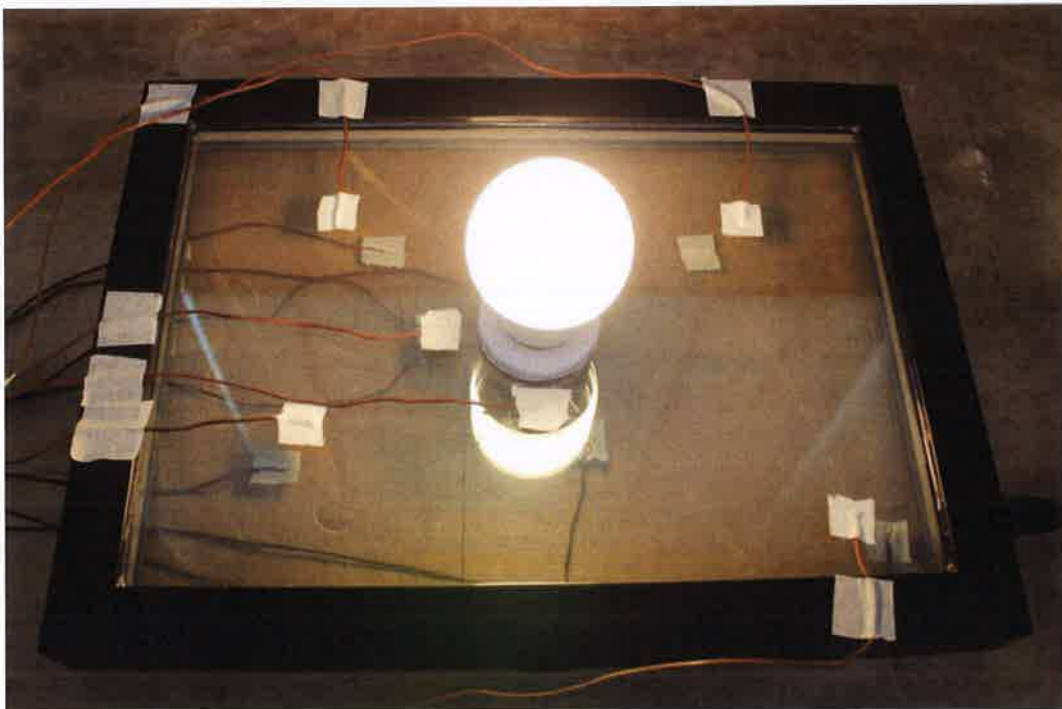
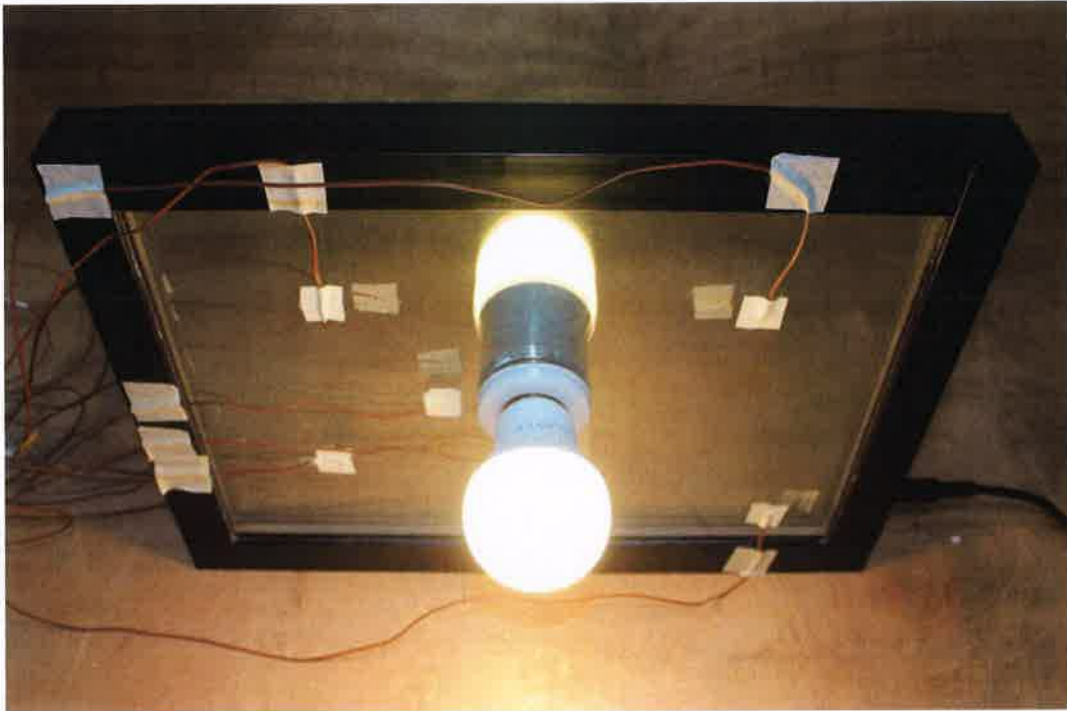
Heating test setup

Positions of thermocouples



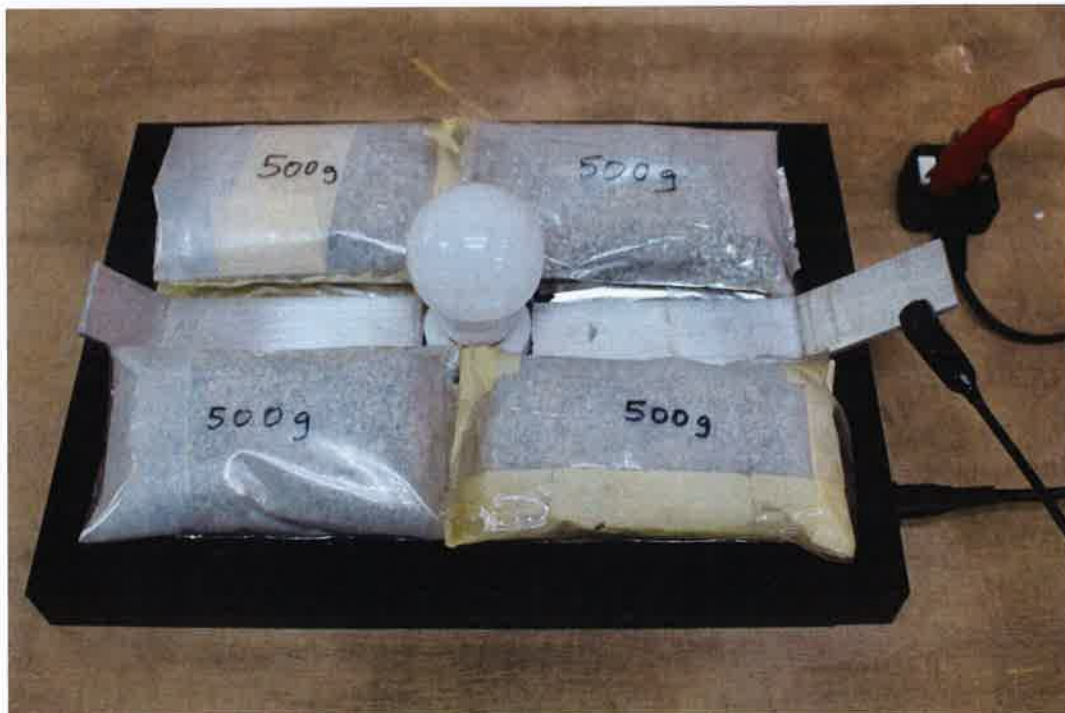
Appendix III (cont'd)

Heating test setup



Appendix IV

High Voltage Test setup



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