



TEST REPORT

Report No.: STSGZ2110223030E

Date: 24-Nov-2021

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Solar outdoor lantern

Model/Style/Item #: MO6340

Receiving Date: 22-Oct-2021

Test Period: From 22-Oct-2021 to 28-Oct-2021

Add Information: -

Report Summary

#	Test item(s)	Reference Standard/Method	Result
1	EMC test - The Council EMC directive 2014/30/EU	EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-1:2019 (IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2+2010, IEC 61000-4-8:2009)	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Bovey Yang
(Chemical Test Manager)



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Result:

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

Description	:	Solar outdoor lantern
Model Number	:	MO6340
Remark	:	N/A

1.2 Operational Mode(s) of EUT

Order Number	:	Test Mode(s)
1	:	ON

1.3 Test Voltage(s) of EUT

Order Number	:	Test Voltage(s)
1	:	DC 1.2V by Battery

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2. DESCRIPTION OF TEST STANDARD

The intention of this publication is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

The following referenced standard are indispensable for the application of this report.

Referenced Description below:

EN IEC 55015:2019+A11:2020

Limits and methods of measurement of radio disturbance characteristics of electrical Torching and similar equipment.

EN 61547:2009

Equipment for general Torching purposes - EMC immunity requirements.

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3. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 55015:2019+A11:2020	---	N/A
Magnetic test	EN IEC 55015:2019+A11:2020	---	PASS
Radiated disturbance	EN IEC 55015:2019+A11:2020	---	PASS
*Harmonic current emissions	EN IEC 61000-3-2:2019	N/A	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019	N/A	N/A
IMMUNITY (EN 61547:2009)			
Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2:2008	B	PASS
Radio-frequency, Continuous radiated disturbance	IEC 61000-4-3:2006+A1:2007	A	PASS
Electrical fast transient (EFT)	IEC 61000-4-4:2004	B	N/A
Surge (Input a.c. power ports)	IEC 61000-4-5:2005	B	N/A
Radio-frequency, Continuous conducted disturbance	IEC 61000-4-6:2008	A	N/A
Power frequency magnetic field	IEC 61000-4-8:1993+A1:2000	A	PASS
Voltage dips, 100% reduction	IEC 61000-4-11:2004	B	N/A
Voltage dips, 30% reduction		C	N/A
N/A is an abbreviation for Not Applicable.			

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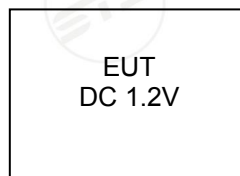
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4. BLOCK DIAGRAM OF TEST SETUP

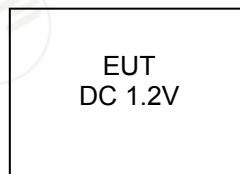
The equipments are installed test to meet EN 55015 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

4.1 Block Diagram of connection between EUT and simulation-EMI



(EUT: Solar outdoor lantern)

4.2 Block Diagram of connection between EUT and simulation-EMS



(EUT:Solar outdoor lantern)

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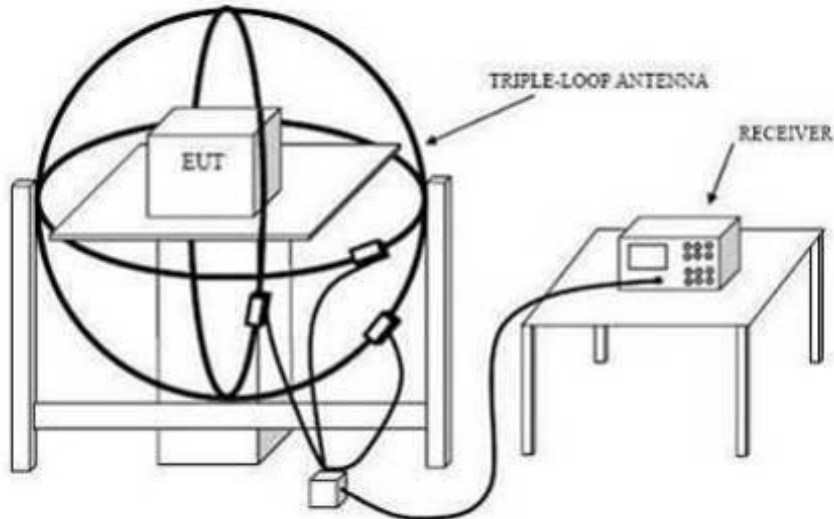
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5. MAGNETIC TEST

5.1 Configuration of Test System



5.2 Test Standard

EN IEC 55015:2019+A11:2020

5.3 7.3. Magnetic Field Emission Limit

All emanations from devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	Limits for loop diameter (dBuA)	
	2m	
0.009~0.07	88	
0.07~0.15	88~58*	
0.15~3.00	58~22*	
3.00~30.0	22	

Note: 1. At the transition frequency the lower limit applies.
2. *decreasing linearly with logarithm of the frequency.



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5.4 Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coax switch.

The frequency range from 9 KHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9 KHz to 150 KHz, the bandwidth of the field strength meter (R&S test receiver ESCI) is set at 200Hz. For frequency band 150 KHz to 30MHz, the bandwidth is set at 9 KHz.

The test result are reported on Section 7.5.

5.5.Radiated Disturbance Test Results

5.5.1.Test Results: **PASS**

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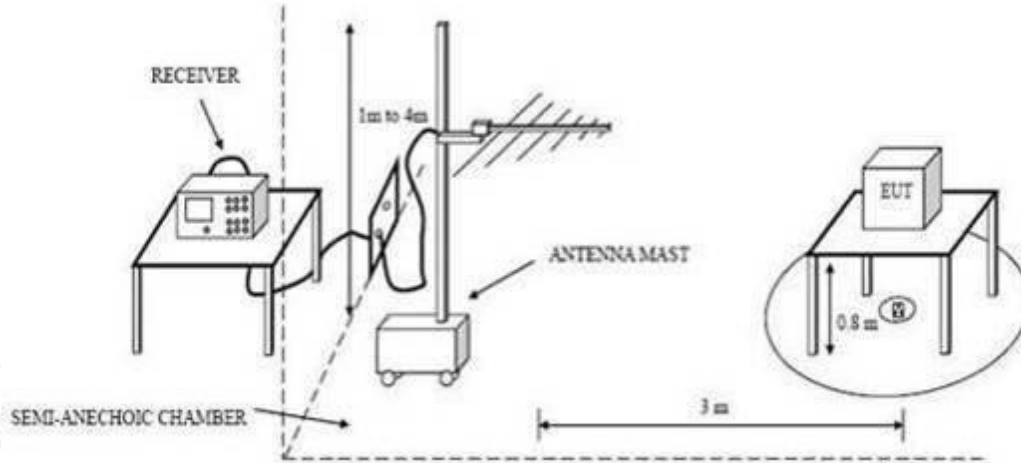
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6. MAGNETIC TEST

6.1 Configuration of Test System



6.2 Test Standard

EN IEC 55015:2019+A11:2020

6.3 Radiated Disturbance Limit

All emanations from devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: 1.The lower limit shall apply at the transition frequencies.

2. Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.



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6.4 Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN IEC 55015 on Radiated Disturbance test.

The bandwidth setting on the test receiver is 120 kHz.

The frequency range from 30MHz to 1000MHz is checked. The test result are reported on Section 6.5.

6.5. Radiated Disturbance Test Results

6.5.1. Test Results: **PASS**

6.5.2. Emission Level= Correct Factor + Reading Level.

6.5.3. All reading are Quasi-Peak values.

6.5.4. The test data and the scanning waveform are attached within Appendix I.

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7. IMMUNITY PERFORMANCE CRITERIA

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level by its manufacturer or the requestor of the test, or the agreed between the manufacturer and the purchaser of the product.

Definition related to the performance level:

Based on the used product standard

Based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

During the test no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.

Criterion B:

During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.

Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.

Criterion C:

During and after the test any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control.

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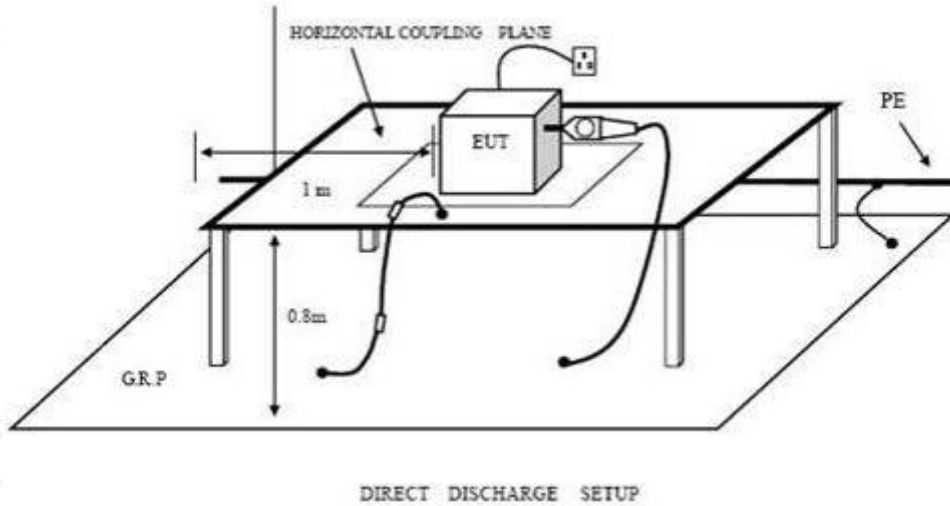
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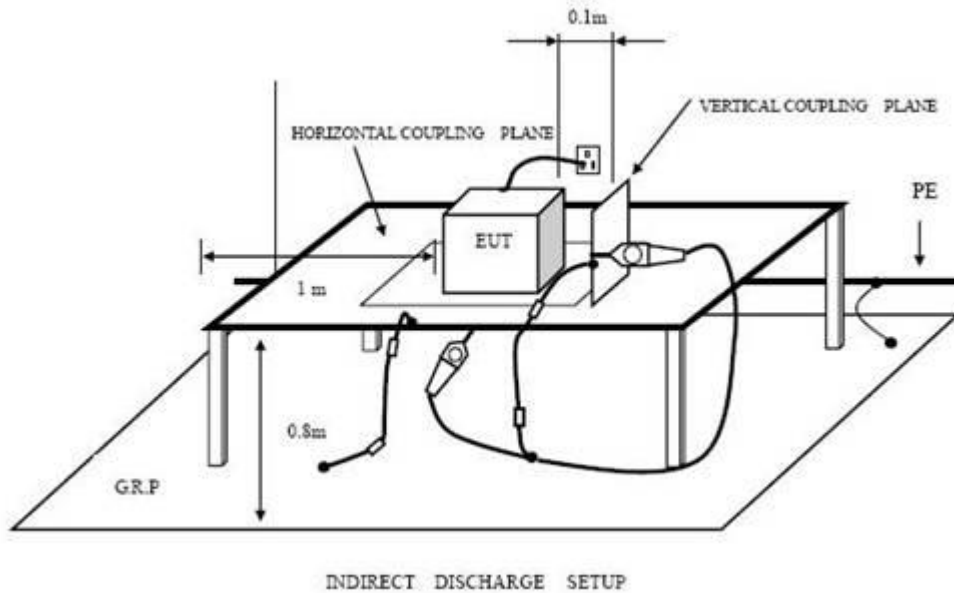
8. ELECTROSTATIC DISCHARGE IMMUNITY TEST

8.1 Configuration of Test System

7.1.1 Configuration of ESD Test System(Direct Discharge)



7.1.2 Configuration of ESD Test System(Indirect Discharge)



7.2 Test Standard

EN 61547:2009 (IEC 61000-4-2:2008)

(Severity Level 3 for Air Discharge at 8KV, Severity Level 2 for Contact Discharge at 4KV)



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7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X	Special	Special

7.3.2 Performance criterion : **B**

7.4 Test Procedure

7.4.1. Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

7.4.2. Contact Discharge:

All the procedure was same as Section 9.4.1. except that the generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. the tip of the discharge electrode was touch the EUT before the discharge switch was operated.

7.4.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

7.4.4. Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.5 Test Results

8.5.1 Test Results: **PASS**

8.5.2 Test data on the following pages.

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Electrostatic Discharge Test Results

Test Voltage :	1	Test Date:	Oct.26,2021
Test Mode :	1	Criterion :	B
Temperature:	31°C	Humidity:	52%
Air Discharge: ±2,4 and 8KV		# For Air Discharge each Point Positive 10 times and negative 10 times discharge.	
Contact Discharge: ±4KV		# For Contact Discharge each point positive 10 times and negative 10 times discharge.	
Test Results Description			
Location	Kind A-Air Discharge C-Contact D-Discharge	Result	
Gaps	A	PASS	
HCP	C	PASS	
VCP of Front	C	PASS	
VCP of Rear	C	PASS	
VCP of Left	C	PASS	
VCP of Right	C	PASS	
Remark :			

Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

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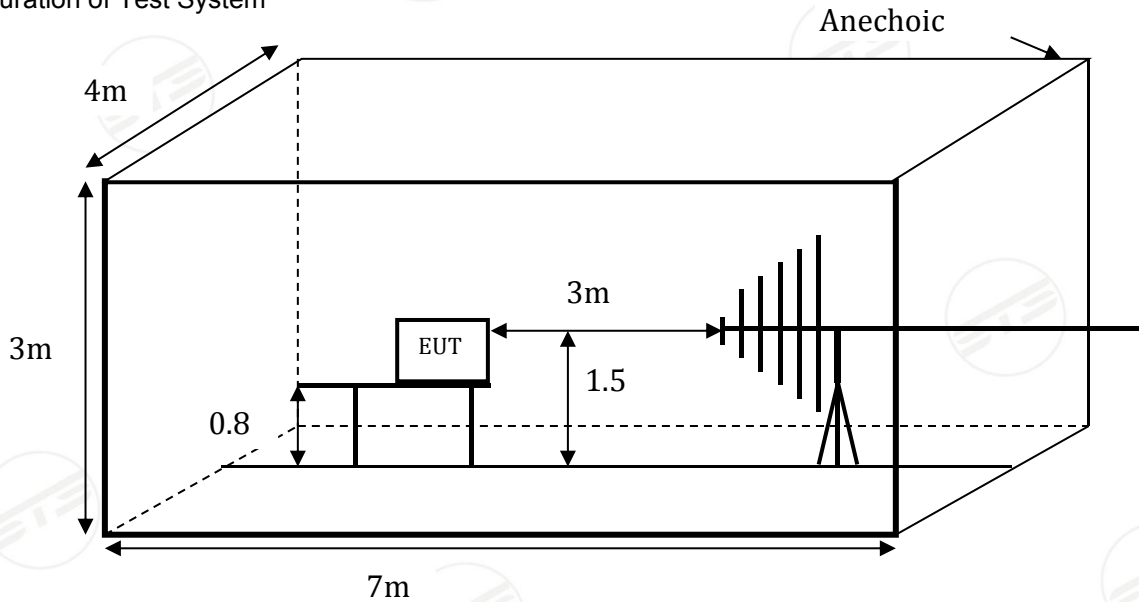
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9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

9.1 Configuration of Test System



9.2 Test Standard

EN 61547:2009 (IEC 61000-4-3:2006+A1:2007)
(Severity Level: 2 at 3V / m)

8.3 Severity Levels and Performance Criterion

8.3.1 Severity level

Level	Test Field Strength V/m
1.	1
2.	3
3.	10
X	Special

8.3.2 Performance criterion : A



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8.4 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor the EUT. All the scanning conditions are as follows :

Condition of Test

Remarks

- 1. Test Fielded Strength
- 2. Radiated Signal
- 3. Scanning Frequency
- 4. Sweeping time of radiated
- 5. Dwell Time

3 V/m (Severity Level 2)
80% amplitude modulated with a 1kHz sine wave
80 - 1000 MHz
0.0015 decade/s
1.5 Sec.

9.5 Test Results

9.5.1 Test Results: **PASS**

9.5.2 Test data on the following pages

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RF Field Strength Susceptibility Test Results

Test Voltage:	1	Test Date:	Oct.26,2021
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion:	A
Temperature:	31°C	Humidity:	52%
Modulation:	<input checked="" type="radio"/> AM	<input type="radio"/> Pulse	<input type="radio"/> none
		1 kHz	80%
Test Results Description			
Frequency Rang 1: 80MHz - 1000 MHz			
Steps	1%	1%	
	Horizontal	Vertical	
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Note: No function loss			

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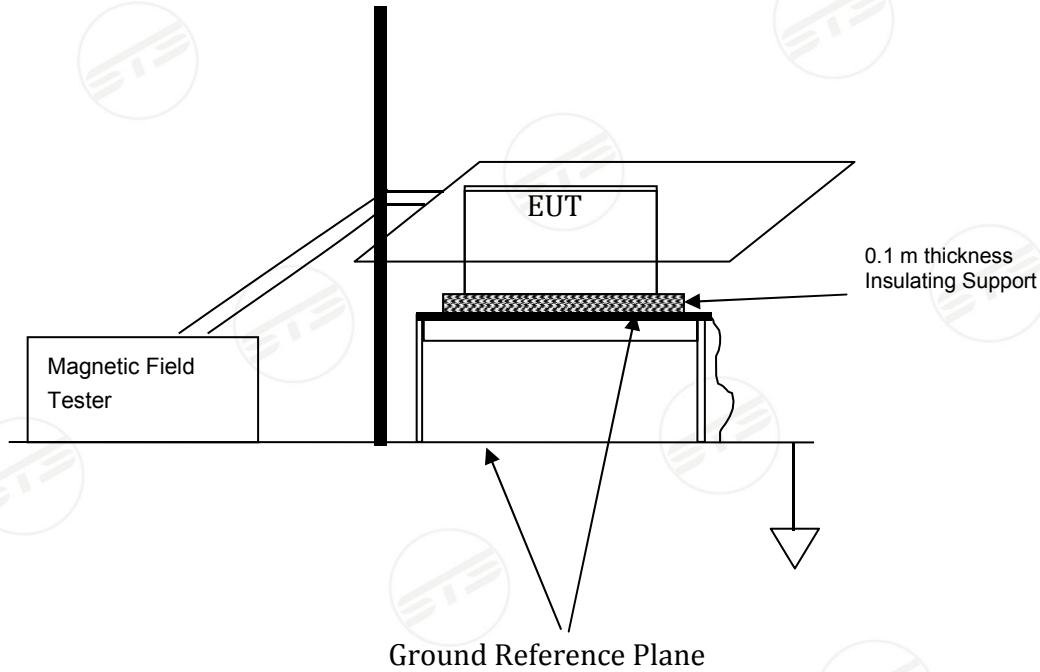
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10. MAGNETIC FIELD IMMUNITY TEST

10.1 Configuration of Test System



10.2 Test Standard

EN 61547:2009 (IEC 61000-4-8:1993+A1:2000)
(Severity Level 2 at 3A/m)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

Level	Magnetic Field Strength A/m
1.	1
2.	3
3.	10
4.	30
5.	100
X.	Special

9.3.2 Performance criterion : **A**



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9.4 Test Procedure

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 18.1. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

9.5 Test Results

9.5.1 Test Results: **PASS**

9.5.2 Test data on the following pages.

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Magnetic Field Immunity Test Results

Test Voltage :	1	Test Date:	Oct,26,2021	
Test Mode :	1	Criterion :	A	
Temperature:	31°C	Humidity:	52%	
Test Results Description				
Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/m(50Hz/60Hz)	5 mins	X	A	PASS
3A/m(50Hz/60Hz)	5 mins	Y	A	PASS
3A/m(50Hz/60Hz)	5 mins	Z	A	PASS
Remark: No function loss				

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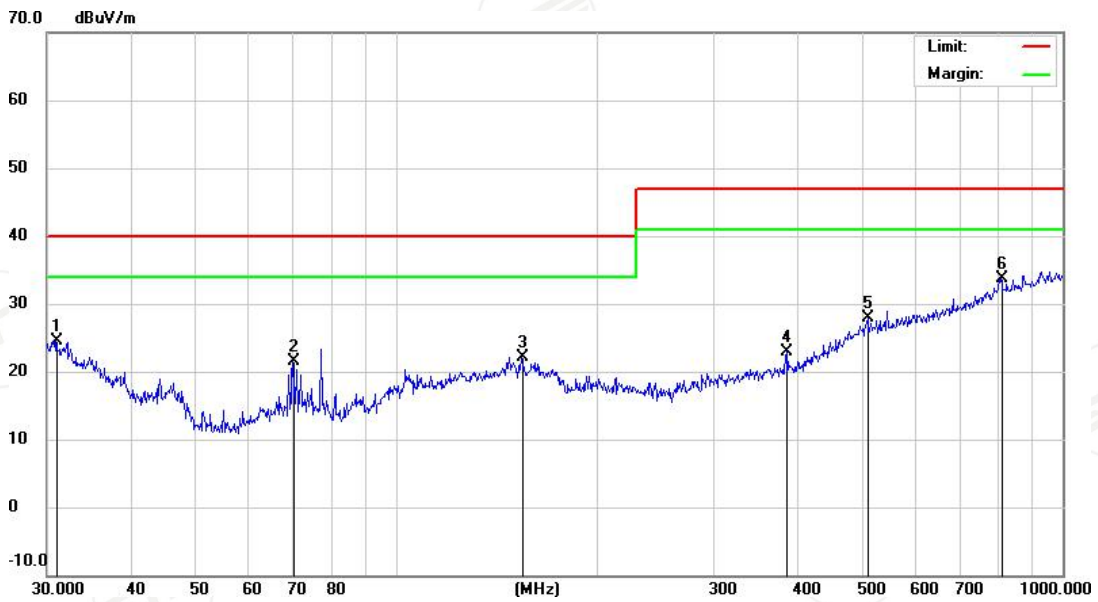
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APPENDIX I

EUT:	Solar outdoor lantern	M/N:	MO6340
Mode:	ON	Polarization:	Vertical
Test by:	Peter	Power:	DC1.2V by Battery
Temperature: / Humidity	23.0°C / 56.0%	Test date:	2021-10-27



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.9619	4.32	20.25	24.57	40.00	-15.43	QP			
2		70.0903	12.17	9.31	21.48	40.00	-18.52	QP			
3		154.2786	4.59	17.53	22.12	40.00	-17.88	QP			
4		386.6338	5.66	17.15	22.81	47.00	-24.19	QP			
5		510.0436	5.07	22.81	27.88	47.00	-19.12	QP			
6	*	807.4291	5.63	27.98	33.61	47.00	-13.39	QP			

*:Maximum data x:Over limit !:over margin

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EUT:	Solar outdoor lantern	M/N:	MO6340
Mode:	ON	Polarization:	Horizontal
Test by:	Peter	Power:	DC1.2V by Battery
Temperature: / Humidity	23.0°C / 56.0%	Test date:	2021-10-27



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	31.5095	5.15	19.87	25.02	40.00	-14.98	QP		
2		60.0691	5.36	8.60	13.96	40.00	-26.04	QP		
3		116.1321	5.24	15.37	20.61	40.00	-19.39	QP		
4		203.5228	4.33	15.10	19.43	40.00	-20.57	QP		
5		381.2487	5.15	17.04	22.19	47.00	-24.81	QP		
6		545.1826	4.67	23.20	27.87	47.00	-19.13	QP		

*:Maximum data x:Over limit !:over margin

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Guangzhou Depuhua Test Services Co. Ltd.

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 Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com



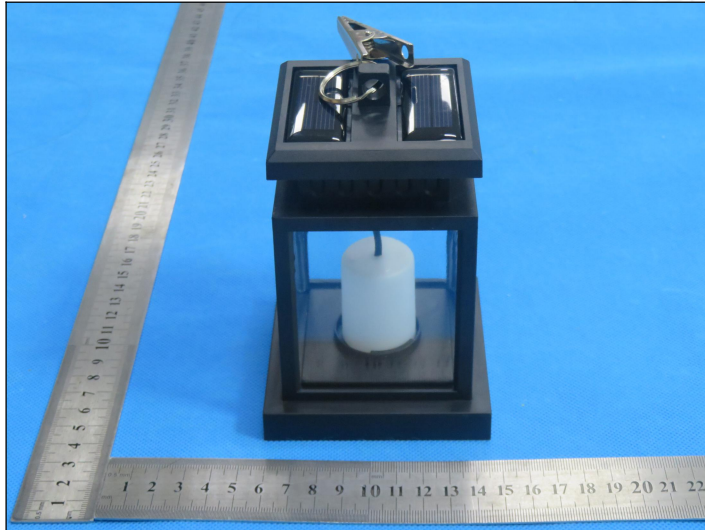
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Photo(s):



Product Photo

<<< << END OF REPORT >>> >>>

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声明 Statement

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签发测试报告条款

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2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关政府部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

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The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。

In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

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