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Rev.: 00

47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1093
KDB 680106 D01 v03r01

Maximum Permissible Exposure Report

For

Wireless Charger Module

Model: LPS-15WP K

Trade Name: LUXSHAREICT

Issued to

Lanto Electronic Ltd
No 399, Baisheng Road, Jinxi Town, Kunshan City,
Jiangsu ,China 215234

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan
Issued Date: November 3, 2023

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 3, 2023	Initial Issue	ALL	Allison Chen


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1. TEST RESULT CERTIFICATION

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1093 KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

Approved by:



Sky Zhou
Asst. Section Manager
Compliance Certification Services Inc.

2. EUT SPECIFICATION

EUT	Wireless Charger Module
Model	LPS-15WP K
Trade Name	LUXSHAREICT
Model Discrepancy	N/A
Frequency Range	<input checked="" type="checkbox"/> 111 ~ 148 KHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure <input checked="" type="checkbox"/> General Population/Uncontrolled exposure
Antenna Specification	Coil Antenna
Received Date	September 19, 2023
Date of Test	November 1, 2023

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: Variant information between/among model numbers / trademarks are provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

3. MEASUREMENT EQUIPMENT USED

3.1 Equipment Used for Emissions Measurement

RF Conducted Test Site (Shielding Room)					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Data Acquisition System	SPEAG	MAGPy-DAS	3061	2023-06-21	2024-06-20
Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D	3062	2023-06-21	2024-06-20

3.2 MEASUREMENT UNCERTAINTY

Parameter	Frequency	Expanded Uncertainty (dB)	<i>k</i>
Electric Field Strength	3KHz ~10MHz	± 1.06 dB	2
Magnetic Field Strength	3KHz ~10MHz	± 1.02 dB	2

These uncertainties represent an expanded uncertainty expressed approximately at the 95% confidence level using a coverage factor of $k=2$

3.3 KDB 680106 D01 v03 R01 SECTION 5.b) EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Power transfer frequency is less than 1MHz.	Yes. Operating Frequency is between 111kHz to 148 kHz.
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. Maximum power is 15 Watts.
(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes.
(4) Client device is placed directly in contact with the transmitter.	Yes.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes.
(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes.

4. LIMIT

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310.

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of the chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	* 900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
<u>0.3-1.34</u>	<u>614</u>	<u>1.63</u>	* 100	30
1.34-30	824/f	2.19/f	* 180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5. HUMAN EXPOSURE ASSESSMENT

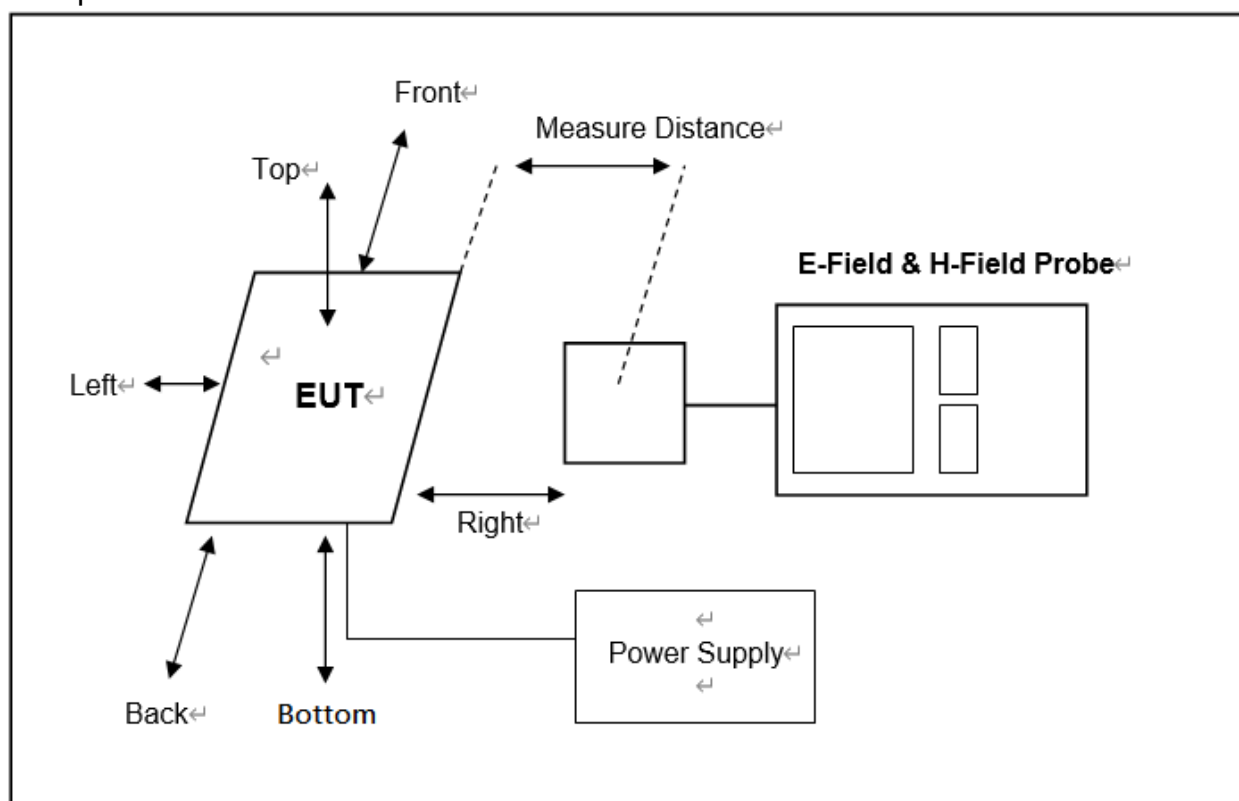
5.1 Support Equipment

No.	Device Type	Brand	Model	Series No.
1	RX full function test module	EESON	Generation 3	N/A
2	Adapter.	Lenovo	ADP-90ME B	N/A

5.2 Test Setup

The test site used to collect data is a Shield Room.

The measurement was taken using a probe placed 15 cm surrounding the device and 20 cm above the top surface of the EUT. Measurements were taken the top and all sides of the EUT per KDB680106 D01 v03 R01.



5.3 Electric Field Test Results

Temperature: 23~23.5°C

Test Date: November 1, 2023

Humidity: 62~65% RH

Tested by: Jack Yang

Operating Frequency (kHz)	Distance (cm)	Probe from EUT Side	Quantity Value RMS	Compliance Extrapolation Factor	Electric Field (V/m)	Limit (V/m)	50% of MPE limit (V/m)
128	20	Top	9.17	1	9.17	614	307
	15	Bottom	1.34	1	1.34	614	307
	15	Front	1.36	1	1.36	614	307
	15	Back	1.07	1	1.07	614	307
	15	Right	1.12	1	1.12	614	307
	15	Left	1.12	1	1.12	614	307

Remark:

1. Different loading conditions have been determined and the worst case was 100% loading.

5.4 Magnetic Field Test Results

Temperature: 23~23.5°C

Test Date: November 1, 2023

Humidity: 62~65% RH

Tested by: Jack Yang

Operating Frequency (kHz)	Distance (cm)	Probe from EUT Side	Quantity Value RMS	Compliance Extrapolation Factor	Magnetic Field (A/m)	Limit (A/m)	50% of MPE limit (A/m)
128	20	Top	0.11	1.471	0.162	1.63	0.815
	15	Bottom	0.05	1.637	0.079	1.63	0.815
	15	Front	0.06	1.604	0.099	1.63	0.815
	15	Back	0.03	1.209	0.030	1.63	0.815
	15	Right	0.07	1.530	0.101	1.63	0.815
	15	Left	0.03	2.203	0.059	1.63	0.815

Remark:

1. Different loading conditions have been determined and the worst case was 100% loading.

5.4 Highest H-field Test Plots

Top_20cm

