

TEST REPORT

Report No.: 8326EU011613W2

Applicant: Hong Kong Etech Groups Ltd.

Address: 16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

Product Name: Life is for fun Series Foldable 3-in-1 Magnetic Charger

Model No.: EWL-24077-A (refer to clause 2.4)

Trademark: MINISO

FCC ID: 2A3ZO-24077A

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310
47 CFR Part 2, Subpart J, Section 2.1091

Date of Receipt: Jan. 16, 2025

Test Date: Jan. 16, 2025 – Feb. 12, 2025

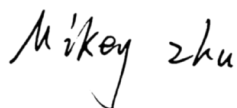
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ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



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2 General Information

2.1 Applicant Information

Applicant	Hong Kong Etech Groups Ltd.
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Hong Kong Etech Groups Ltd.
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

2.3 Factory Information

Factory	Hong Kong Etech Groups Ltd.
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

2.4 General Description of E.U.T.

Product Name	Life is for fun Series Foldable 3-in-1 Magnetic Charger
Model No. Under Test	EWL-24077-A
List Model No.	ECL1-240033A
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name. (this information provided by the customer)
Rating(s)	Input: 5V---3A/9V---3A Wireless phone charging: 15W MAX Wireless watch charging: 2.5W MAX Wireless earphone charging: 5W MAX Total output: 22.5W MAX
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	V1.0
Software Version	V1.0
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Wireless Power Transfer (WPT)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Operating Frequency	115 - 150KHz
Modulation Type	FSK
Antenna Type	Inductive Loop Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1091 KDB 680106 D01 Wireless Power Transfer v04	Pass	--

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	AC 120V/60Hz for adapter

4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/13	2025/02/14

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (2.5W)	
TM2	Wireless Output (5W)	
TM3	Wireless Output (15W)	
TM4	Wireless Output (2.5W) + (5W)	
TM5	Wireless Output (2.5W) + (15W)	
TM6	Wireless Output (5W) + (15W)	
TM7	Wireless Output (2.5W) + (5W) + (15W)	
TM14	Standby	

Note:

1. EUT supports empty load, half load, full load working at the same time, so the all conditions have been tested. It is found that TM7 full load is the worst mode, and the data in the report only reflects the worst mode.

4.4 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.6%
Electric field measurements(3kHz~10MHz)	±17.3%

5 RF Exposure Evaluation

5.1 Test Requirement

§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 this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

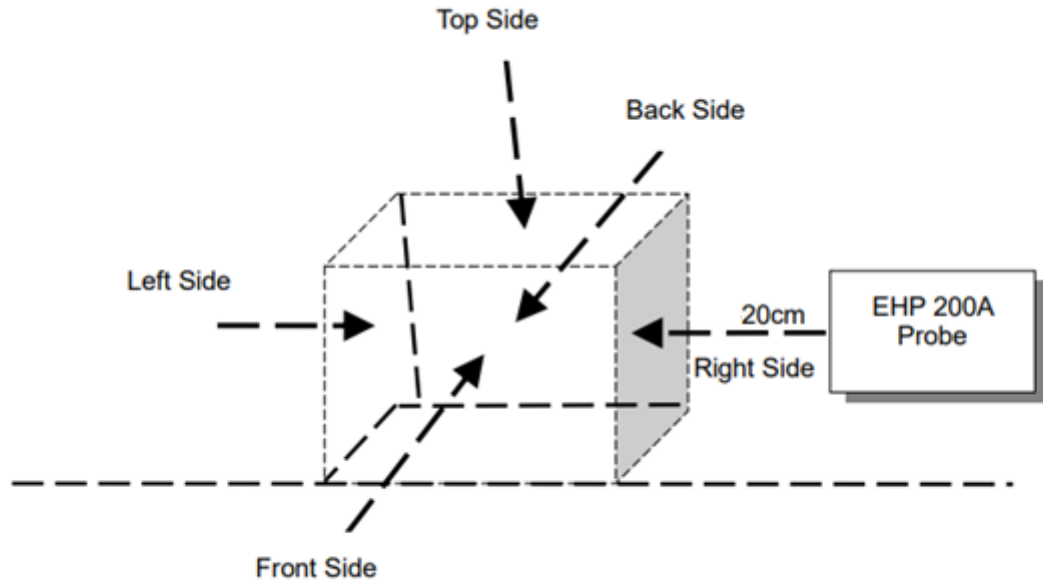
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000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

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20cm) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

5.1 Evaluation Result

Test Condition: Test Mode 7 operating with client device (1% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	4.8613	614	0.84%	0.1416	1.63	14.10%
Bottom	4.4794			0.2709		
Front	2.8578			0.2529		
Rear	4.2442			0.2861		
Left	2.4817			0.1835		
Right	3.9643			0.0278		

Test Condition: Test Mode 7 operating with client device (50% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	5.0558	614	0.80%	0.1137	1.63	13.84%
Bottom	4.2876			0.2165		
Front	1.9292			0.2026		
Rear	3.0809			0.2295		
Left	2.7142			0.1461		
Right	4.9243			0.0220		

Test Condition: Test Mode 7 operating with client device (99% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	5.2261	614	0.82%	0.1418	1.63	20.60%
Bottom	4.7333			0.2156		
Front	2.2242			0.0610		
Rear	3.1860			0.0274		
Left	3.1515			0.1105		
Right	2.7648			0.0242		

ANNEX A TEST SETUP PHOTOS

PHOTO 1



STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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