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FCC Test Report

Applicant : Zhejiang Lera New Energy Power Technology

Co.,Ltd.

255 Kesheng Road, Haishu Wangchun

Address : Industrial Park, Ningbo City, Zhejiang

Province, 315000, China

Product Name : PowerHUB

Report Date : May 10, 2023









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TEST REPORT

Applicant : Zhejiang Lera New Energy Power Technology Co.,Ltd.

Manufacturer : Zhejiang Lera New Energy Power Technology Co.,Ltd.

Product Name : PowerHUB

Model No. : B300

Trade Mark : litheli

Rating(s) : Please see page 7

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Apr. 10, 2023
Date of Test	Apr. 10 ~ 19 2023
Prepared By	Nian xiu Chen
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Revision History

Report Version				Description		Issued Date			
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1. General Information

1.1. Client Information

Pre		VU.
Applicant	: Zhejiang Lera New Energy Power Technology Co.,Ltd.	
Address	255 Kesheng Road, Haishu Wangchun Industrial Park, Ningbo City,Zhejiang Province, 315000, China	anb ak
Manufacturer	: Zhejiang Lera New Energy Power Technology Co.,Ltd.	
Address	255 Kesheng Road, Haishu Wangchun Industrial Park, Ningbo City,Zhejiang Province, 315000, China	Anbotek
Factory	: Zhejiang Lera New Energy Power Technology Co.,Ltd.	
Address	255 Kesheng Road, Haishu Wangchun Industrial Park, Ningbo City,Zhejiang Province, 315000, China	Ar bross

1.2. Description of Device (EUT)

PowerHUB
B300 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
litheli Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
DC 14.4V battery inside
1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Model: A869-200325C-US1 Input: 100-240V~, 50/60Hz, 1.7A Output: 5.0V=3.0A/ 9.0V=3.0A/12.0V=3.0A/15.0V=3.0A/20.0V=3.25A/ 3.3-21.0V=3.25A 65.0W Max
110.1-205KHz
ASK Anbotek Anbotek Anbotek Anbotek Anbotek
Inductive loop coil Antenna
0 dBi (Provided by customer)

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Wireless charging	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load	M/N: CD2577
And sak abo	Power: 5W/7.5W/10W/15W

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Ar P O ^t	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 17, 2022	1 Year

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	inpotek.	Anbotek	Anbotek	Anbotek
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anbotek	Anborek	Anbotek	y Aupore

1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102







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Rating(s):

Capacity: 14.4V == 20.8Ah 300Wh

Total Output Power: 300W

AC output (x1): 300W(rated),110VAC, 60Hz USB-A output (x2): 5V-2 4A, 12W(Max)

TYPE-C Output (x1): 5V-3A/9V-3A/12V-3A/15V-3A/20V-5A, 100W(Max)

Wireless Charging Output (x1): 15W

Vehicle Charging Output (x1): 12.0V= 10A, 120W(Max)
Solar Charging Input (DC7909): 100W(Max)11-30VDC 7A

Vehicle Charging Input(DC7909): 100W(Max) 7A

TYPE-C Input: 5V= 3A/9V= 3A/12V= 3A/15V= 3A/20V= 5A,100W(Max)





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2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 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
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 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.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
	(A) Limits for Occ	cupational/Controlled Ex	posures	t.						
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	1	1	f/300	6						
1500-100,000	1	1	5	6						
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	o-						
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	1	1	f/1500	30						
1500-100,000	1	1	1.0	30						

F=frequency in MHz

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).



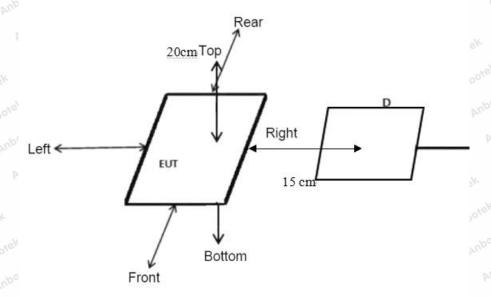


⁼Plane-wave equivalent power density



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2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance 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
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements

2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 15W.
- 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
- The transfer system including a charging system with only single primary coils is to detect and allow



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only between individual pairs of coils.

- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
 - The EUT is a Mobile exposure conditions
- 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.
 - Conducted the measurement with the required distance and the test results please refer to the section 2.4.

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

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	DC 14.4V battery inside

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205	0.33	0.42	0.37	0.38	0.50	307	614
50%	110.1-205	1.34	1.77	1.27	1.41	1.56	307 200	614
99%	110.1-205	2.34	2.75	2.34	2.32	2.76	307	614
Stand-by	110.1-205	0.29	0.47	0.30	0.27	0.44	307	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

0	Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
	1%	110.1-205	0.027	0.049	0.055	0.039	0.049	0.815	1.63
-	50%	110.1-205	0.219	0.329	0.229	0.219	0.389	0.815	1.63
316	99%	110.1-205	0.354	0.544	0.454	0.254	0.234	0.815	1.63
3	Stand-by	110.1-205	0.498	0.328	0.398	0.528	0.378	0.815	1.63

Note: All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 15W) was recorded in the report.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

