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FCC Test Report

Applicant : Huizhou Intelligent Energy Co., Ltd.

8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe

Address : Avenue, Tonghu Town, Zhongkai High-tech

Zone, HuiZhou, China

Product Name : Portable Power Station

Report Date : Apr. 23, 2023

Shenzhen Anbotek Contribut



Laboratory Limited







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Rating(s)

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TEST REPORT

Huizhou Intelligent Energy Co., Ltd. Applicant Manufacturer Huizhou Intelligent Energy Co., Ltd.

Product Name Portable Power Station H2400PRO, H2400 Model No.

N/A Trade Mark

> AC Input: 100V-130V~12.5A, 60Hz, 1500W PV Input: DC 12V-75V-25A, 800W Max

AC Output X 4: Pure Sine Wave 120V~60Hz, 2400W

AC Parallel Interface: 2400W

After Being Connected AC Output: 4800W DC Output X2 + Cigarette Lighter Socket

Output:Total 12V = 10A

USB-A Output X2: 5V-3A, 9V-2A, 12V-1.5A, 18W Max

USB-C Output X 2: 5V/9V/12V/15V/20V-- 3A,20V-- 5A, 100W Max

Wireless Charge: 10W

Battery: DC 51.52V, 40Ah/2060.8Wh

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. 04, 2023 Apr. 04 ~ 18, 2022 Date of Test

Tu Tu Hong Prepared By

(TuTu Hong)

Approved & Authorized Signer

(Kingkong Jin)







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Revision History

Report Version			Description			Issued Date			
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1. General Information

1.1. Client Information

	PA-	50,	
,	Applicant	:	Huizhou Intelligent Energy Co., Ltd.
16	Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China
1/2	Manufacturer	:	Huizhou Intelligent Energy Co., Ltd.
	Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China
	Factory	:	Huizhou Intelligent Energy Co., Ltd.
0	Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China

1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Model No.	·	H2400PRO, H2400 (Note: All samples are the same except the model number and Series models have not parallel functions, so we prepare "H2400PRO" for test only.)
Trade Mark	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek
Test Power Supply		DC 51.52V battery
Test Sample No.		1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Abotek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type		FSK Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)		0 dBi (Provided by customer)
Remark: 1) For a more	det	tailed 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 load	Manufacturer: Shenzhen Ouju Technology Co., Ltd.				
Anbo. An Abotek An	M/N: CD2577				
Anbore And Stek	Power: 5W/7.5W/10W/15W				

1.4. Test Equipment List

	- 1/	4-137	1/201		- V	La LI I	
0	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
P	upote.	Electric and	potek Anbo	ok hotek	Anbore	Aug	anbotek
100	anbote	Magnetic field	NARDA	EHP-200A	180ZX10202	Oct. 17, 2022	1 Year
		Analyzer	Vur.	abovek Ambo	took you	sk Anbore	Arra

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbotek	Anboten An	Anbotek A
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anborek	Anbotek	Anboten

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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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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	:
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	ş-
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).



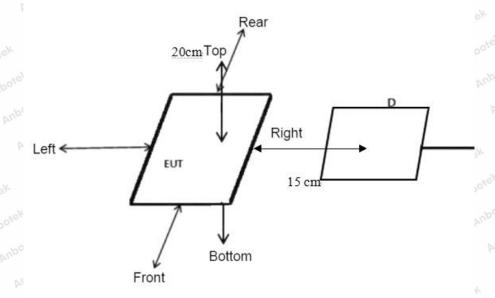


⁼Plane-wave equivalent power density



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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 points
- (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 10W.
- 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

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only between individual pairs of coils

- The transfer system including a charging system with only single primary coils is to detect and allow 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 51.52V battery

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	1.43	1.87	1.36	1.49	1.66	307	614
99%	110.1-205	2.43	2.83	2.44	2.39	2.85	307	614
Stand-by	110.1-205	0.44	0.59	0.43	0.42	0.56	307	614

H-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 (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	0.40	0.49	0.39	0.39	0.56	0.815	1.63
99%	110.1-205	0.45	0.63	0.52	0.34	0.33	0.815	1.63
Stand-by	110.1-205	0.47	0.29	0.39	0.51	0.37	0.815	1.63

Note: All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 10W) 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

----- End of Report -----

