TEST REPORT

Report No.:	8233EU011117W2
Applicant:	Huizhou Intelligent Energy Co., Ltd.
Address:	8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039 China
Product Name:	PORTABLE POWER STATION
Model No.:	T-500
Trademark:	N/A
FCC ID:	2BASNT500MV1000
Test Standard(s):	47 CFR Part 1 Subpart I Section 1.1310 47 CFR Part 2, Subpart J, Section 2.1091
Date of Receipt:	Sep. 11, 2024
Test Date:	Sep. 11, 2024 – Sep. 24, 2024
Date of Issue:	Oct. 14, 2024

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

Prepared by:	**Reviewed and Approved by:**
Mikey Zhu/ Engineer	Sally Zhang/ Manager

Revision Record

Report Version	Issued Date	Description	Status
V0	Oct. 14, 2024	Original	Valid

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2 General Information

2.1 Applicant Information

Applicant	Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039 China

2.2 Manufacturer Information

Manufacturer	Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039 China

2.3 Factory Information

Factory	Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039 China

2.4 General Description of E.U.T.

Product Name	PORTABLE POWER STATION
Model No. Under Test	T-500
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Battery Capacity: 22.2V, 23.4Ah/519.48Wh DC/PV Input: 12-26V⎓8.5A Max, 105W Max AC Output: Pure Sine Wave, 110V~60Hz, 500W DC Output*2: 12V⎓5A(Each) Cigarette Lighter Socket Output: 12V⎓10A USB-A Output*3: 5V⎓3A, 9V⎓2A, 12V⎓1.5A, 18W Max USB-C Output: 5V/9V/12V/15V/20V⎓3A, 60W Max Wireless Charger Output: 10W
Adapter	Model No.: A1001-2504000D Input: 100-240V~50/60Hz 2.5A Max Output: 25.0V⎓4.0A 100W Manufacturer: Shenzhen Xinspower Technology Co., Ltd
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	N/A
Software Version	N/A
Remark	1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. 2) 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)

The requirement for the following technical information of the EUT was tested in this report:

Technology	**WPT**
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	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.

Address: 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

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℃ to +35℃
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 60Hz

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 (10W for Phone)	
TM2	Standby	
Note: 1. All the conditions have been tested. It is found that TM1 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

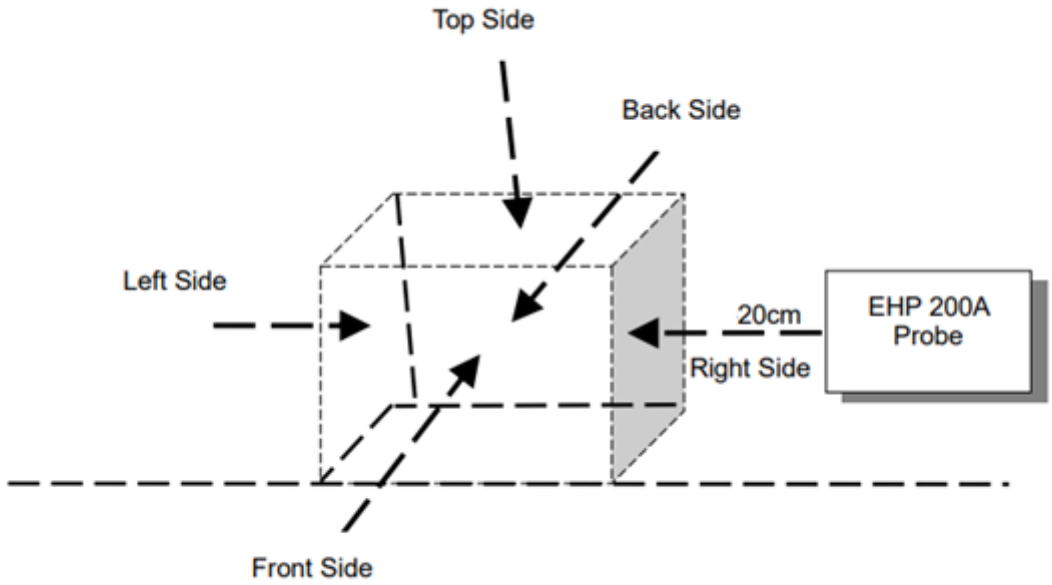
§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

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 1 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	3.3751	614	0.84%	0.1068	1.63	14.10%
Bottom	3.4996			0.2950		
Front	1.5249			0.0781		
Rear	3.9153			0.1084		
Left	3.4495			0.0893		
Right	3.4355			0.0333		

Test Condition: Test Mode 1 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	4.6886	614	0.80%	0.0850	1.63	13.84%
Bottom	3.7240			0.2360		
Front	2.5355			0.0621		
Rear	2.4629			0.0869		
Left	3.5744			0.0711		
Right	4.5597			0.0260		

Test Condition: Test Mode 1 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	4.8621	614	0.82%	0.1846	1.63	20.60%
Bottom	3.1356			0.1720		
Front	1.9926			0.0267		
Rear	3.6944			0.2644		
Left	2.3400			0.1438		
Right	4.9177			0.1441		

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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7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

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