

RF EXPOSURE REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant / Manufacturer : Eastway (Shanghai) Co., Ltd.

Address : Room 3255, Block 1, No. 1017 Caoyang Rd., Putuo District, Shanghai

Factory : Dongguan IRice Electronics Development Co.,Ltd.

Address : Building 1, No.17, Hudie 1st Road, Tianxin village, Huangjiang town, Dongguan city, Guangdong province, PRC 523763 China

E.U.T. : Power Station

Brand Name : HEATCURE

Model No. : HEATCURE 400

FCC ID : 2A2Y7-HEATCURE400

Measurement Standard : 47 CFR PART 2, Section 2.1091

Date of Receiver : August 06, 2021

Date of Test : August 14, 2021 to September 05, 2021

Date of Report : September 07, 2021

In the configuration tested, the EUT complied with the standards specified above.

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product Name	:	Power Station
Main Model	:	HEATCURE 400
Additional Model	:	N/A
Model Difference	:	N/A
Power Supply	:	DC 14.8V come from internal battery DC Input: DC19V 3.42A (65W Max), come from Adapter Type-C1: DC5V 3A/DC9V 3A/DC12V 3A/DC15V 3A/DC20V 3A (60W Max), AC Output: AC105V-120V, 60Hz (300W Max), DC Output: Type-C1: DC5V 3A/DC9V 3A/DC12V 3A/DC15V 3A/DC20V 3A (60W Max), Type-C2: DC5V 3A/DC9V 2A/DC12V 1.5A (18W Max), USB1&USB2: DC5V 3A/DC9V 2A/DC12V 1.5A(QC 3.0) (Total DC5V 3A), USB3&USB4: DC5V 2.4A (Total DC5V 3A), Car Charger: DC12V 10A (120W Max), Wireless output 1&2: 5W/7.5W/10W
Adapter	:	Model: FJ-SW20171903420D Input: AC100-240V, 50/60Hz, 1.5A Max. Output: DC19V 3.42A, 64.98W
Test voltage	:	AC 120V 60Hz, AC 240V 50Hz (Only the worst case was record in the report.)
Cable	:	USB-C Cable: 1.05m, shielded, detachable, Adapter AC Cable: 1.02m, unshielded, detachable, Adapter DC Cable: 1.02m, unshielded, non-detachable with one core.
Software Version	:	1.9
Hardware Version	:	Not Stated
Note	:	N/A
Remark	:	N/A
Frequency Range	:	110.5-210KHz
Test frequency	:	140.9KHz

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2A2Y7-HEATCURE400 filing to comply with 47 CFR PART 2, Section 2.1091
According to KDB680106 D01V03: RF exposure wireless charging apps v03r01.

1.3 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018
The certificate is valid until August 13, 2024
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017
The certificate is valid until December 31, 2021
The Laboratory has been assessed and proved to be in compliance with ISO17025
The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Name of Firm

Listed by Industry Canada, June 08, 2017
The Certificate Registration Number. Is 46405-9743
: Dongguan Nore Testing Center Co., Ltd.
(Dongguan NTC Co., Ltd.)

Site Location

: Building D, Gaosheng Science & Technology Park, Zhouxi Longxi Road, Nancheng District, Dongguan City, Guangdong Province, China

2. Measurement Uncertainty

Measurement Uncertainty for a Level of Confidence of 95%, $U=2\times U_c(y)$

Magnetic Field Emissions	$\pm 0.15\text{dB}$
Electric Field Emissions	$\pm 0.36\text{dB}$

3. Method of measurement

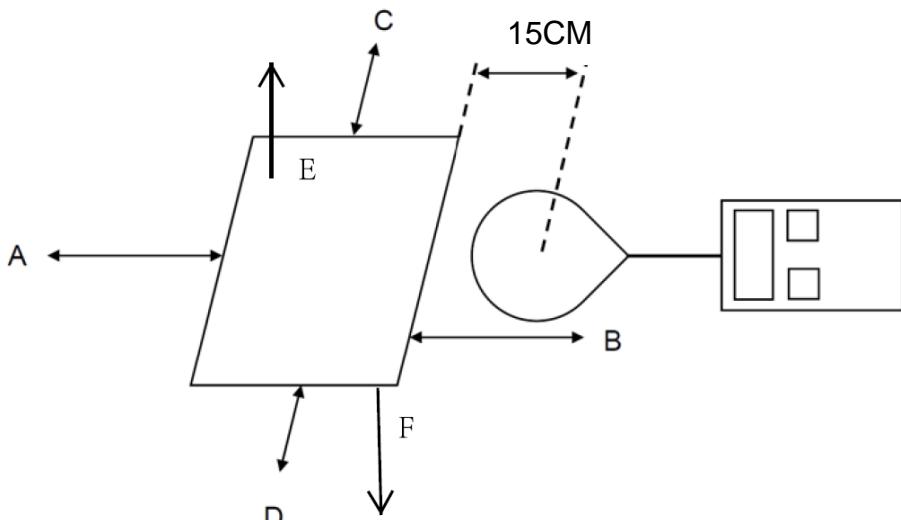
3.1 Applicable standard

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

According to part 2.1091(mobile use condition) RF exposure is calculated.

According to KDB680106 D01 v03r01: RF exposure wireless charging apps v03r01.

3.2 Test Setup



Remarks: Distance for point E shall be 20cm

3.3 Test procedure

1. The RF exposure test was performed on 360 degree turn table in anechoic chamber;
2. The measurement probe was placed at test distance 15cm which is between the edge of the charger and 20cm between top of the charger and the geometric centre of probe.
3. The turn table was rotated 360 degrees to search of highest strength.
4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A,B,C,D,E) were completed.
5. The EUT were measured according to the dictates of KDB 680106D01v03r01

3.4 Equipment approval considerations

The EUT dose comply with item 5.2 of KDB 680106D01 v03r01

a, Power transfer frequency is less than 1MHz.

YES; the device operated in the frequency range from 110.5-205KHz.

b, Output power from each primary coil is less than or equal to 15 watts

YES; the maximum output power of the primary coil is 10W<15W.

c, The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time

YES; The transfer system includes has two source primary coils, the coil pairs may be powered on at the same time

d, Client device is placed directly in contact with the transmitter.

YES; Client device is placed directly in contact with the transmitter.

e, Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

YES;

f, The aggregate H-field strengths at 15cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

YES; The EUT field strength levels are less than 50% x MPE limits.

3.5 E and H field strength Limit

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).

Test Result

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Electric Field Emissions

The 1 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	3.41	3.42	3.44	614	307
	Side B	15	4.25	4.26	4.28	614	307
	Side C	15	3.32	3.35	3.37	614	307
	Side D	15	3.14	3.16	3.19	614	307
	Side E	20	4.82	4.84	4.88	614	307

The 1 wireless charger base: wireless output 10W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	3.84	3.85	3.89	614	307
	Side B	15	4.62	4.66	4.67	614	307
	Side C	15	3.51	3.53	3.55	614	307
	Side D	15	3.56	3.57	3.57	614	307
	Side E	20	4.63	4.64	4.66	614	307

The 2 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	3.63	3.65	3.66	614	307
	Side B	15	4.52	4.54	4.57	614	307
	Side C	15	3.13	3.16	3.17	614	307
	Side D	15	2.94	2.96	3.01	614	307
	Side E	20	4.63	4.66	4.70	614	307

The 2 wireless charger base: wireless output 10W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	4.28	4.30	4.32	614	307
	Side B	15	4.42	4.44	4.48	614	307
	Side C	15	3.60	3.62	3.65	614	307
	Side D	15	3.18	3.20	3.24	614	307
	Side E	20	4.83	4.85	4.88	614	307

The 1+2 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	4.12	4.15	4.19	614	307
	Side B	15	4.86	4.89	4.91	614	307
	Side C	15	3.36	3.39	3.43	614	307
	Side D	15	3.15	3.17	3.22	614	307
	Side E	20	4.93	4.95	4.99	614	307

The 1+2 wireless charger base: wireless output 10W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	4.33	4.35	4.38	614	307
	Side B	15	4.42	4.46	4.50	614	307
	Side C	15	3.67	3.69	3.71	614	307
	Side D	15	3.32	3.35	3.37	614	307
	Side E	20	5.12	5.16	5.19	614	307

Magnetic Field Emissions

The 1 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.18	0.20	0.19	1.63	0.815
	Side B	15	0.19	0.18	0.18	1.63	0.815
	Side C	15	0.18	0.19	0.19	1.63	0.815
	Side D	15	0.20	0.20	0.20	1.63	0.815
	Side E	20	0.18	0.19	0.18	1.63	0.815

The 1 wireless charger base: wireless output 10W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.20	0.18	0.19	1.63	0.815
	Side B	15	0.17	0.18	0.20	1.63	0.815
	Side C	15	0.18	0.18	0.18	1.63	0.815
	Side D	15	0.18	0.18	0.17	1.63	0.815
	Side E	20	0.18	0.19	0.20	1.63	0.815

The 2 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.19	0.19	0.18	1.63	0.815
	Side B	15	0.18	0.18	0.20	1.63	0.815
	Side C	15	0.17	0.18	0.18	1.63	0.815
	Side D	15	0.20	0.19	0.19	1.63	0.815
	Side E	20	0.19	0.20	0.18	1.63	0.815

The 2 wireless charger base: wireless output 10W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.18	0.18	0.19	1.63	0.815
	Side B	15	0.19	0.18	0.21	1.63	0.815
	Side C	15	0.18	0.18	0.20	1.63	0.815
	Side D	15	0.20	0.20	0.19	1.63	0.815
	Side E	20	0.19	0.18	0.20	1.63	0.815

The 1+2 wireless charger base: wireless output 5W

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.20	0.19	0.18	1.63	0.815
	Side B	15	0.19	0.20	0.18	1.63	0.815
	Side C	15	0.18	0.19	0.20	1.63	0.815
	Side D	15	0.20	0.18	0.19	1.63	0.815
	Side E	20	0.19	0.18	0.18	1.63	0.815

The 1+2 wireless charger base: wireless output 10W

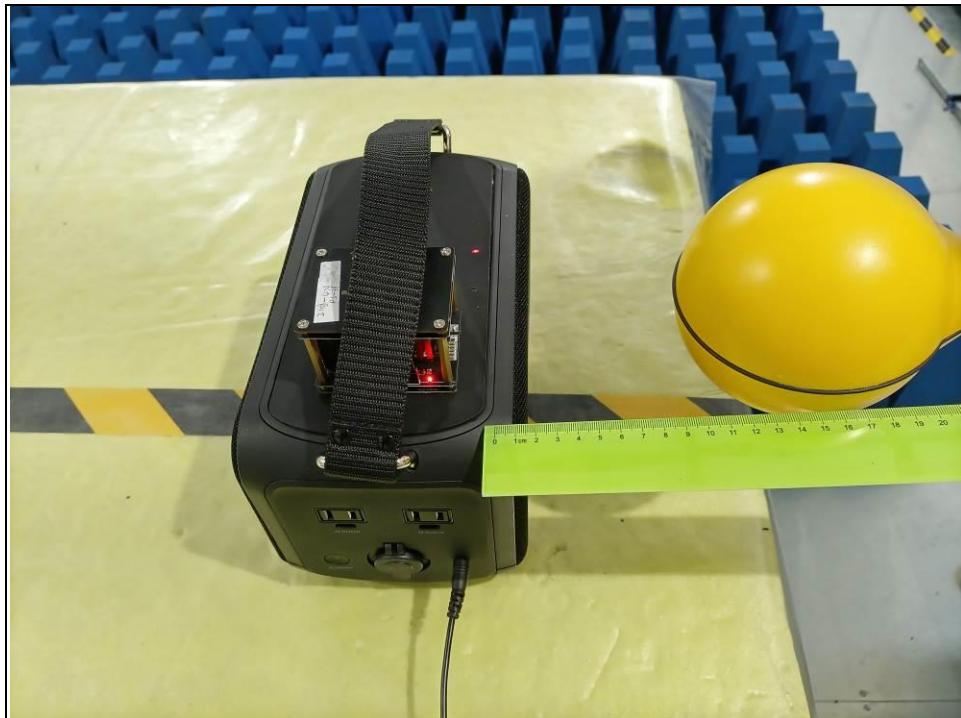
Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
140.9KHz	Side A	15	0.18	0.17	0.20	1.63	0.815
	Side B	15	0.19	0.20	0.19	1.63	0.815
	Side C	15	0.20	0.19	0.18	1.63	0.815
	Side D	15	0.21	0.18	0.19	1.63	0.815
	Side E	20	0.19	0.19	0.17	1.63	0.815

3.6 Test equipment list

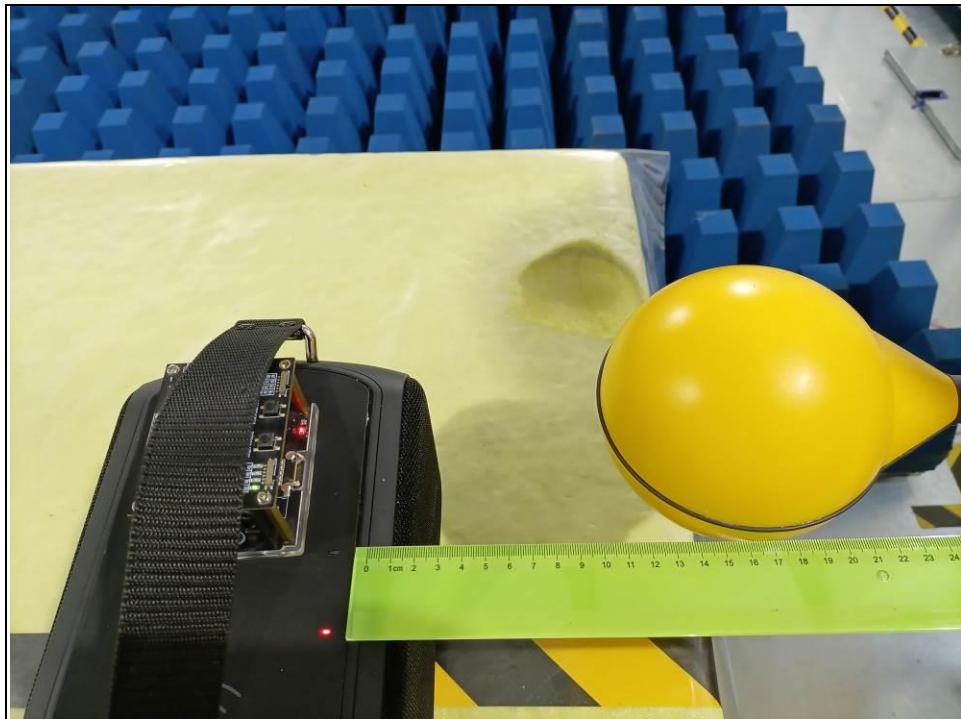
Description	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due Date
Magnetic field probe 100cm ²	Narda	ETL Probe 1Hz-400KHz	M-1587	June 28,2021	June 27, 2022
E-Field Probe	Narda	EP-601	611WX70729	Mar. 23, 2021	1 Year

3.7 Test Photo

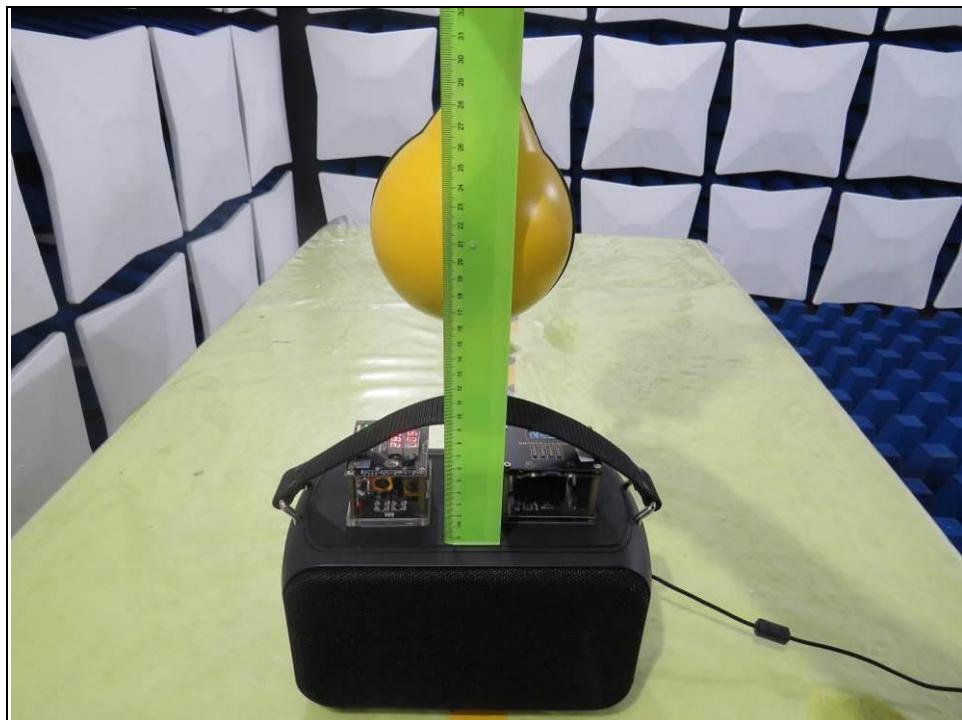
The 1 wireless charger base



The 2 wireless charger base



The 1+2 wireless charger base



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