

# RF EXPOSURE REPORT

Product Name: Power Bank  
FCC ID: 2AU4P-QE10007PQ  
Trademark: Energizer  
Model Number: QE10007PQ  
Prepared For: TennRich International Corp.  
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Sample Received Date: Jan. 10, 2022  
Sample tested Date: Jan. 10, 2022 to Mar. 08, 2022  
Issue Date: Mar. 08, 2022  
Report No.: CTB220118027RFX  
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 RF Exposure Wireless Charging App v03r01  
Test Results: PASS  
Remark: This is wireless charger EMF report.

Compiled by:



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Reviewed by:



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Approved by:



Bin Mei, Director

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## Table of Contents

	Page
1 . GENERAL INFORMATION	3
1.1 . Independent Operation Mode	3
1.2 . Test Supporting System	3
2 .LIST OF TEST AND MEASUREMENT INSTRUMENTS	4
2.1 . For conducted emission at the mains terminals test	4
3. METHOD OF MEASUREMENT	5
3. 1.Applicable Standard	5
4. TEST RESULT	5
4.1. Conducted Emission at the Mains Terminals Test	5
4.2. Equipment Approval Considerations:	6
4.3. E and H field Strength	6

# 1. GENERAL INFORMATION

## 1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 10W

## 1.2. Test Supporting System

Adapter

Description : Adapter

Model No. : HKA03612030-7B

Power Input :USB-C PD 5V/2A, 9V/2A

Output: USB-C PD 5V/2A, 9V/2.22A, 12V/1.5A

USB-A Quick Charge 5V/3A, 9V/2A, 12V/1.5A

DC Line : Unshielded, Detachable 0.2m

## 2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

### 2.1. For conducted emission at the mains terminals test

Item	Equipment	Brand	Model No.	Frequency Range	Last calibration	Calibrated until
1	Broadband Field Meter	NARDA	NBM-550	-	2020.09.27	2022.08.05
2	Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	2020.09.27	2022.08.05
3	Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	2020.09.27	2022.08.05
4	Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	2020.09.27	2022.08.05
5	Broadband Field Meter	NARDA	NBM-550	-	2020.09.27	2022.08.05
6	Electric Field Meter	COMBINOV A	EFM 200	5Hz – 400kHz	2020.09.27	2022.08.05
7	E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	2020.09.27	2022.08.05
8	E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	2020.09.27	2022.08.05



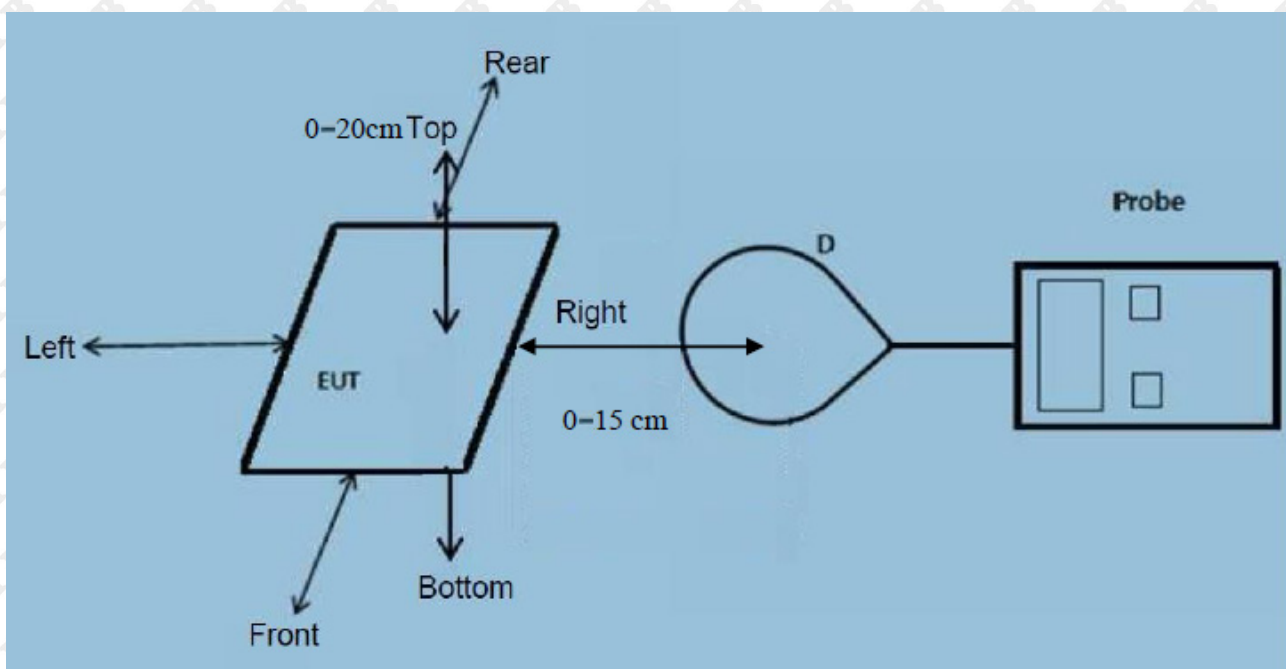
### 3. METHOD OF MEASUREMENT

#### 3. 1.Applicable Standard

According to §1.1307(b)(1), systems 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 §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01: RF Exposure Wireless Charging Apps v 03r01.

### 4. TEST RESULT

#### 4.1. Conducted Emission at the Mains Terminals Test



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm-0cm measured from the center of the top, and 15cm-0cm measured from the center of the rest

**Test Procedure:**

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- 20 cm-0cm measured from the center of the top, and 15cm-0cm measured from the center of the rest sides.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

## 4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01 RF Exposure Wireless Charging App v03r01

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 110KHz to 205KHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 1000mW.

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

Yes, the transfer system includes only single primary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

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

No, submit a KDB inquiry to get test guideline and fully follow the KDB inquiry guideline.

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.

Yes, the EUT field strength levels are less 50% x MPE limit.

## 4.3. E and H field Strength

The result:

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.14	0.14	0.15	0.15	1.63

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.15	1.63

H-Filed Strength at 18 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.17	0.18	0.18	0.19	1.63

H-Filed Strength at 18 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.19	1.63

H-Filed Strength at 16 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.26	0.27	0.27	0.25	1.63

H-Filed Strength at 16 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.27	1.63

H-Filed Strength at 14 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.31	0.32	0.30	0.30	1.63

H-Filed Strength at 14 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.32	1.63

H-Filed Strength at 12 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.38	0.39	0.36	0.37	1.63

H-Filed Strength at 12 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.39	1.63



H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.46	0.49	0.49	0.45	1.63

H-Filed Strength at 10 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.49	1.63

H-Filed Strength at 8 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.57	0.59	0.58	0.56	1.63

H-Filed Strength at 8 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.59	1.63

H-Filed Strength at 6 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.62	0.61	0.62	0.63	1.63

H-Filed Strength at 6 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.63	1.63

H-Filed Strength at 4 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.71	0.72	0.71	0.70	1.63

H-Filed Strength at 4 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.71	1.63

H-Filed Strength at 2 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.76	0.78	0.76	0.79	1.63

H-Filed Strength at 2 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.79	1.63

H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.110-0.205	0.85	0.88	0.86	0.87	1.63

H-Filed Strength at 0 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.110-0.205	0.88	1.63

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