



RF EXPOSURE REPORT

Test item description: Door Access Control Keypad
FCC ID: 2BXGC-MD-K88Z
Trademark(s): hongjin
Model/Type reference: MD- K88Z, MD88, MD89, MD99, S31D, S31, MD-K8, MD-K8S
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Sample Received Date: Jul. 13, 2026
Sample tested Date: Jul. 13, 2026 to Jul. 25, 2026
Issue Date: Jul. 25, 2026
Report No.: CTB26071304401RF02
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 Wireless Power Transfer v04
Test Results: PASS
Remark: This is wireless charger EMF report.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Martin Feng

Kai ChenMartin FengBin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" indicates the testing items were fulfilled by subcontracted lab. "×" indicates the items are not in CNAS accreditation scope.

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	6
4.1. Conducted Emission at the Mains Terminals Test	6
4.2. Equipment Approval Considerations:	7
4.3. E and H field Strength	7

1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 25W

1.2. Test Supporting System

Adapter

Description: Adapter

Model No.: HP18A-0902000-AU

Power Input: AC100-240V~ 1.0A 50/60Hz

Output: 9V $\overline{\overline{=}}$ 2.0A

DC Line: Unshielded, Detachable 1.2m

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	EMF TESTER	Wavecontrol	SMP600/WP40 0-3	15SN0164/21W P1200029	2025/10/20	2026/10/19

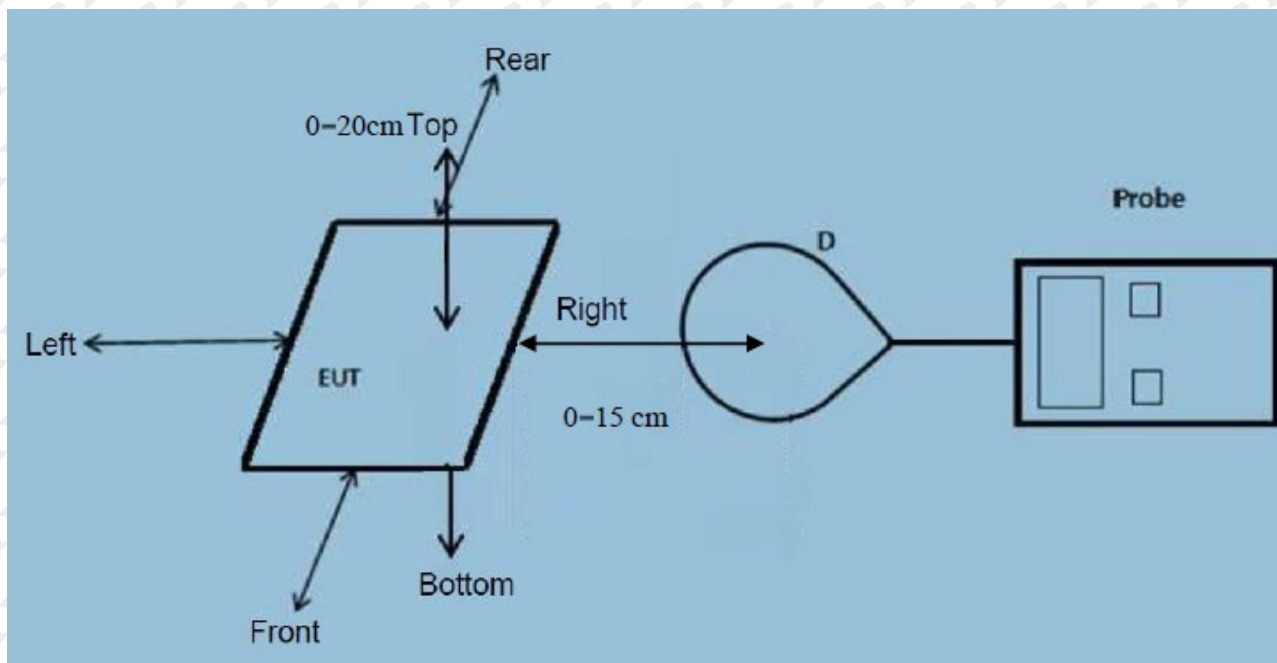
3. METHOD OF MEASUREMENT

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 §2.1091 RF exposure is calculated. According to KDB 680106 D01 Wireless Power Transfer v04.

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 Wireless Power Transfer v04.

4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 V04

1) Power transfer frequency is less than 1MHz

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

2) The output power from each transmitting element (e.g., coil) is less than or equal to 25 watts.

Yes, the maximum output power of the primary coil is 25000mW.

3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact).

Yes, the surfaces of the transmitter and client device enclosures are in physical contact

4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions)..

No, the EUT is portable condition assessment.

5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1.

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

6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions.

Yes, the EUT has only one coil, all test modes met the conditions specified in (5).

4.3. E and H field Strength

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	0.22	0.19	0.20	0.17	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	0.20	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	0.27	0.26	0.27	0.23	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	0.27	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	0.30	0.28	0.28	0.27	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	0.28	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	0.34	0.35	0.33	0.38	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	0.36	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	0.40	0.38	0.38	0.41	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	0.40	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	0.45	0.49	0.50	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	0.50	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	0.56	0.59	0.59	0.57	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	0.67	0.63	0.65	0.67	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	0.67	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	0.70	0.71	0.74	0.68	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	0.73	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	0.79	0.80	0.77	0.76	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

The probe center is 1.65cm from the coil surface, according to KDB 680106, data at 0cm must be estimated through a model, and then the model must be validated with the actual measurements at 2cm.

Using Biot-Savart Law, the value of 2cm can be estimated through the test result of 4cm

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	0.75	0.72	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	0.80	1.63

Using Biot-Savart Law, the value of 0cm can be estimated through the test result of 2cm

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	0.88	0.84	0.84	0.85	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	0.87	1.63

The difference between measurements and estimates is no more than 30%

So the estimates in 0cm is ok

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