

# MPE Test Report

**FCC ID: 2BNB3-M200**

**Report No.** : DSP26041385-1E

**Applicant** : Dongguan HDKing Smart Technology Co.Ltd

**Product Name** : Portable Power Station

**Model Name** : M200

**Test Standard** : FCC CFR 47 PART 1, 1.1310

**Date of Issue** : 2026-05-14

**Shenzhen CCUT Quality Technology Co., Ltd.**

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## Test Report Basic Information

|                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                            |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Applicant</b> .....:                                                                                                                                                                                                                                                             | Dongguan HDKing Smart Technology Co.Ltd<br>Room 201, Building 3, No.47, Shachong Road, Shatou Changan Town,<br>Address of Applicant.....:                                                                                                  | Dongguan City, Guangdong, China                                                       |
| <b>Manufacturer</b> .....:                                                                                                                                                                                                                                                          | TPV Audio and Visual Technology (Shenzhen) Co., Ltd.<br>42/F, Building T1/2A, Shenzhen Bay Innovation and Technology Center,<br>Keyuan Avenue, Yuehai Sub-district, Nanshan District, Shenzhen, Guangdong<br>Address of Manufacturer.....: | Province, P.R. China                                                                  |
| <b>Product Name</b> .....:                                                                                                                                                                                                                                                          | Portable Power Station                                                                                                                                                                                                                     |                                                                                       |
| <b>Brand Name</b> .....:                                                                                                                                                                                                                                                            | -                                                                                                                                                                                                                                          |                                                                                       |
| <b>Main Model</b> .....:                                                                                                                                                                                                                                                            | M200                                                                                                                                                                                                                                       |                                                                                       |
| <b>Series Models</b> .....:                                                                                                                                                                                                                                                         | PN300                                                                                                                                                                                                                                      |                                                                                       |
| <b>Test Standard</b> .....:                                                                                                                                                                                                                                                         | FCC CFR 47 PART 1, 1.1310<br>KDB 680106 D01 Wireless Power Transfer v04                                                                                                                                                                    |                                                                                       |
| <b>Date of Test</b> .....                                                                                                                                                                                                                                                           | 2026-04-25 to 2026-05-14                                                                                                                                                                                                                   |                                                                                       |
| <b>Test Result</b> .....:                                                                                                                                                                                                                                                           | PASS                                                                                                                                                                                                                                       |                                                                                       |
| <b>Tested By</b> .....                                                                                                                                                                                                                                                              | <u>Tate Chen</u><br>(Tate Chen)                                                                                                                                                                                                            |  |
| <b>Reviewed By</b> .....:                                                                                                                                                                                                                                                           | <u>Lorzix Luo</u><br>(Lorzix Luo)                                                                                                                                                                                                          |                                                                                       |
| <b>Authorized Signatory</b> .....:                                                                                                                                                                                                                                                  | <u>Lahm Peng</u><br>(Lahm Peng)                                                                                                                                                                                                            |                                                                                       |
| Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample. |                                                                                                                                                                                                                                            |                                                                                       |

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### Revision History

| Revision | Issue Date | Description     | Revised By |
|----------|------------|-----------------|------------|
| V1.0     | 2026-05-14 | Initial Release | Lahm Peng  |
|          |            |                 |            |
|          |            |                 |            |
|          |            |                 |            |
|          |            |                 |            |

## 1. General Information

### 1.1 Product Information

|                                                                                           |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                             | Portable Power Station                                                                                                                                                                                                                                                                                                                    |
| Trade Name:                                                                               | -                                                                                                                                                                                                                                                                                                                                         |
| Test Model:                                                                               | M200                                                                                                                                                                                                                                                                                                                                      |
| Series Models:                                                                            | PN300                                                                                                                                                                                                                                                                                                                                     |
| Rated Voltage:                                                                            | USB-C1 Input/Output: 5V=3A / 9V=3A / 12V 3A / 15V 3A / 20V 5A / 28V 5A<br>USB-C2(Cable) Output: 5V=3A / 9V=3A / 12V 3A / 15V 3A / 20V 2.25A<br>USB-C3(Cable) Output: 5V=3A / 9V=3A / 12V 3A / 15V 3A / 20V 2.25A<br>USB-A1 Output: 5V 3A<br>USB-A2 Output: 5V 3A<br>DC Output: 12V 10A<br>AC Output: 300W MAX<br>Wireless Output: 15W Max |
| Battery:                                                                                  | DC 22.2V, 13500mAh                                                                                                                                                                                                                                                                                                                        |
| Test Sample No:                                                                           | DSP26041385-1                                                                                                                                                                                                                                                                                                                             |
| Hardware Version:                                                                         | V1.0                                                                                                                                                                                                                                                                                                                                      |
| Software Version:                                                                         | V1.0                                                                                                                                                                                                                                                                                                                                      |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer. |                                                                                                                                                                                                                                                                                                                                           |

| Wireless Specification |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Standard:     | WPC (QI)                                                                                                                           |
| Operating Frequency:   | Wireless charging Output :110.5kHz-205kHz                                                                                          |
| Modulation:            | FSK                                                                                                                                |
| Antenna Gain:          | 0dBi                                                                                                                               |
| Type of Antenna:       | Coil Antenna                                                                                                                       |
| Type of Device:        | <input checked="" type="checkbox"/> Portable Device <input type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device |

## 1.2 Test Setup Information

| List of Test Modes                      |                       |                     |                      |
|-----------------------------------------|-----------------------|---------------------|----------------------|
| Test Mode                               | Description           |                     | Remark               |
| TM1                                     | Wireless charging 15W |                     | -                    |
| List and Details of Auxiliary Cable     |                       |                     |                      |
| Description                             | Length (cm)           | Shielded/Unshielded | With/Without Ferrite |
| -                                       | -                     | -                   | -                    |
| -                                       | -                     | -                   | -                    |
| List and Details of Auxiliary Equipment |                       |                     |                      |
| Description                             | Manufacturer          | Model               | Serial Number        |
| Mobile phone                            | iPhone                | MG843CH/A           | C6KDL69N0GQY         |
| Adapter                                 | Ugreen Group Limited  | X569                | 35965                |

### 1.3 Test Facilities

|                        |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name:       | <b>Shenzhen CCUT Quality Technology Co., Ltd.</b><br>1F, Building 35, Changxing Technology Industrial Park, Yutang Street,<br>Guangming District, Shenzhen, Guangdong, China |
| CNAS Laboratory No.:   | L18863                                                                                                                                                                       |
| A2LA Certificate No.:  | 6983.01                                                                                                                                                                      |
| FCC Registration No:   | 583813                                                                                                                                                                       |
| ISED Registration No.: | CN0164                                                                                                                                                                       |

### 1.4 List of Measurement Instruments

| Description                      | Manufacturer | Model   | Serial Number | Cal. Date  | Due. Date  |
|----------------------------------|--------------|---------|---------------|------------|------------|
| Electromagnetic radiation tester | WAVECONTROL  | SMP3    | 23SL0158      | 2025-07-16 | 2026-07-15 |
| Electromagnetic field probe      | WAVECONTROL  | WP400-3 | 24WP240067    | 2025-07-16 | 2026-07-15 |
| Test Software                    | WAVECONTROL  | SMP     | N/A           | N/A        | N/A        |

Probe radius: 1.65CM

### 1.5 Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty |
|-----------|-----------------|-------------|
| E-field   | 10Hz ~ 100kHz   | ± 2.6%      |
|           | 100kHz ~ 400kHz | ± 4.9%      |
| H-field   | 10Hz ~ 3kHz     | ± 2.5%      |
|           | 3kHz ~ 10kHz    | ± 2.6%      |
|           | 10kHz ~ 100kHz  | ± 4.3%      |
|           | 100kHz ~ 400kHz | ± 5.0%      |

## 2. RF Exposure

### 2.1 Standard and Limit

| Frequency Range (MHz)                                   | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | 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 <sup>2</sup> )              | 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 <sup>2</sup> )              | 30                       |
| 30–300                                                  | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300–1500                                                | --                            | --                            | f/1500                              | 30                       |
| 1500–100,000                                            | --                            | --                            | 1.0                                 | 30                       |

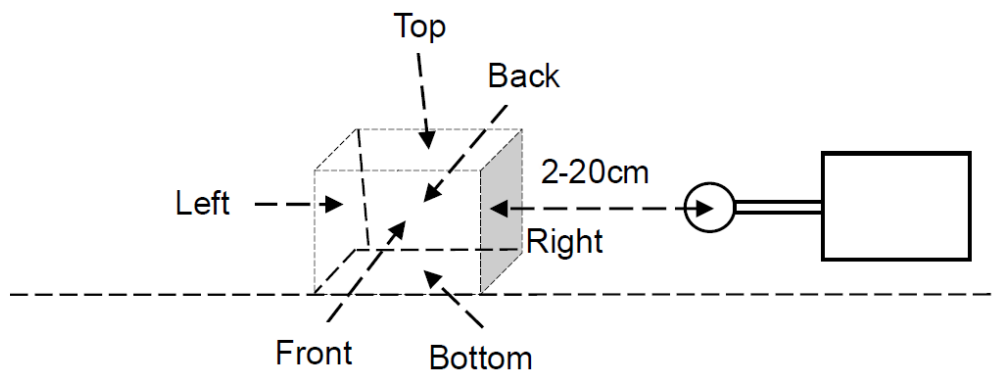
f = frequency in MHz

### 2.2 Test Procedures

The EUT was measured according to the KDB 680106 D01v04.

- 1) The RF exposure test was performed in an anechoic chamber.
- 2) The measurement probe was placed at test distance(2~20cm) which is between the edge of the wireless charger and the geometric center of probe for portable exposure, and the measurement probe was placed at test distance(20~24cm) which is between the edge of the wireless charger and the geometric center of probe for mobile exposure.
- 3) Choose the worst mode among battery with zero/partial/full charge, then perform measurement.
- 4) The highest emission level was recorded and all sides (A, B, C, D, E, F) were completed.
- 5) Calculate the final E/H-field strength.

## 2.3 Test Setup Block Diagram



Note: Front side = A, Right side = B, Back side = C, Left side = D, Top side = E, Bottom side = F.

## 2.4 Test Data and Results

For portable exposure conditions:

Operating modes with client device (1 %, 50%, 99% battery status of client device) have been tested, only show the data of worst case of battery status of client device.

H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each side of the device were also evaluated for portable exposure use condition.

Test Mode: TM1(the worst mode)

Transmitter Battery Level: 99%

| Test Distance<br>(cm) | Test Position<br>A(uT) | Test Position<br>B(uT) | Test Position<br>C(uT) | Test Position<br>D(uT) | Test Position<br>E(uT) | Test Position<br>F(uT) |
|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 2                     | 0.683                  | 0.825                  | 0.743                  | 0.238                  | 0.552                  | 0.735                  |
| 4                     | 0.165                  | 0.651                  | 0.525                  | 0.122                  | 0.247                  | 0.238                  |
| 6                     | 0.81                   | 0.328                  | 0.237                  | 0.065                  | 0.15                   | 0.125                  |
| 8                     | 0.073                  | 0.149                  | 0.131                  | 0.051                  | 0.131                  | 0.047                  |
| 10                    | 0.045                  | 0.126                  | 0.078                  | 0.044                  | 0.081                  | 0.042                  |
| 12                    | 0.044                  | 0.055                  | 0.045                  | 0.036                  | 0.065                  | 0.033                  |
| 14                    | 0.036                  | 0.049                  | 0.041                  | 0.035                  | 0.045                  | 0.032                  |
| 16                    | 0.035                  | 0.035                  | 0.038                  | 0.026                  | 0.031                  | 0.028                  |
| 18                    | 0.028                  | 0.027                  | 0.025                  | 0.025                  | 0.025                  | 0.025                  |
| 20                    | 0.021                  | 0.025                  | 0.023                  | 0.022                  | 0.019                  | 0.021                  |

| Test<br>Distance<br>(cm) | Test Position |            |            |            |            |            | Limits<br>(A/m) |
|--------------------------|---------------|------------|------------|------------|------------|------------|-----------------|
|                          | A<br>(A/m)    | B<br>(A/m) | C<br>(A/m) | D<br>(A/m) | E<br>(A/m) | F<br>(A/m) |                 |
| 2                        | 0.553         | 0.673      | 0.681      | 0.632      | 0.554      | 0.562      | 1.63            |
| 4                        | 0.152         | 0.270      | 0.261      | 0.334      | 0.289      | 0.305      | 1.63            |
| 6                        | 0.079         | 0.245      | 0.232      | 0.231      | 0.203      | 0.155      | 1.63            |
| 8                        | 0.068         | 0.158      | 0.156      | 0.158      | 0.110      | 0.054      | 1.63            |
| 10                       | 0.039         | 0.036      | 0.065      | 0.135      | 0.062      | 0.047      | 1.63            |
| 12                       | 0.030         | 0.048      | 0.058      | 0.108      | 0.045      | 0.033      | 1.63            |
| 14                       | 0.023         | 0.042      | 0.057      | 0.067      | 0.036      | 0.030      | 1.63            |
| 16                       | 0.021         | 0.035      | 0.054      | 0.048      | 0.023      | 0.023      | 1.63            |
| 18                       | 0.018         | 0.022      | 0.050      | 0.035      | 0.021      | 0.017      | 1.63            |
| 20                       | 0.013         | 0.013      | 0.012      | 0.017      | 0.014      | 0.012      | 1.63            |

Note: H-field(A/m) = H-field(uT)/1.25.

Using Polynomial order 10, the value of 4 cm and 6 cm can be estimated, and the result of comparison meets the requirements (<30%), therefore, the calculation method is acceptable.

Distance: 4cm

| Test Position       | A      | B      | C      | D      | E      | F      |
|---------------------|--------|--------|--------|--------|--------|--------|
| Valuation (A/m)     | 0.152  | 0.270  | 0.261  | 0.334  | 0.289  | 0.305  |
| Measure Value (A/m) | 0.15   | 0.269  | 0.258  | 0.333  | 0.288  | 0.304  |
| Agreement Ratio (%) | -1.32% | -0.37% | -1.15% | -0.30% | -0.35% | -0.33% |
| Limit (%)           | 30%    | 30%    | 30%    | 30%    | 30%    | 30%    |
| Result              | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   |

Distance: 6cm

| Test Position       | A      | B      | C      | D      | E      | F      |
|---------------------|--------|--------|--------|--------|--------|--------|
| Valuation (A/m)     | 0.079  | 0.245  | 0.232  | 0.231  | 0.203  | 0.155  |
| Measure Value (A/m) | 0.078  | 0.244  | 0.231  | 0.229  | 0.202  | 0.153  |
| Agreement Ratio (%) | -1.27% | -0.41% | -0.43% | -0.87% | -0.49% | -0.64% |
| Limit (%)           | 30%    | 30%    | 30%    | 30%    | 30%    | 30%    |
| Result              | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   |

Based on the above results, using Polynomial order 10, the value of 0 cm can be estimated as below.

| Test Distance (cm) | Test Position |         |         |         |         |         | Limits (A/m) |
|--------------------|---------------|---------|---------|---------|---------|---------|--------------|
|                    | A (A/m)       | B (A/m) | C (A/m) | D (A/m) | E (A/m) | F (A/m) |              |
| 0                  | 0.98          | 0.87    | 1.28    | 1.17    | 1.25    | 1.19    | 1.63         |
| Test Results: PASS |               |         |         |         |         |         |              |

## Annex A. Test Photos

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**Test View 1**



**Test View 2**



**Test View 3****Test View 4**

**Test View 5**



**Test View 6**



**\*\*\*\*\* END OF REPORT \*\*\*\*\***