

# Test Report

**Report No.:** MTi220226006-01E2

**Date of issue:** 2022-03-18

**Applicant:** Shenzhen Baseus Technology Co., Ltd.

**Product:** Bracket Wireless Fast Charge Power Bank 10000mAh

**Model(s):** PPCXZ10

**FCC ID:** 2A482-PPCXZ1002

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

## Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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| Test Result Certification  |  |
|----------------------------|--|
| <b>Applicant:</b>          | <b>Shenzhen Baseus Technology Co., Ltd.</b>  |
| <b>Address:</b>            | 2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen |
| <b>Manufacturer:</b>       | <b>Shenzhen Baseus Technology Co., Ltd.</b>  |
| <b>Address:</b>            | 2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen |
| <b>Product description</b> |  |
| <b>Product name:</b>       | Bracket Wireless Fast Charge Power Bank 10000mAh   |
| <b>Trademark:</b>          | Baseus   |
| <b>Model name:</b>         | PPCXZ10  |
| <b>Serial Model:</b>       | N/A  |
| <b>Standards:</b>          | FCC CFR 47 PART 1, § 1.1310  |
| <b>Test method:</b>        | KDB 680106 v03r01  |
| <b>Date of Test</b>        |  |
| <b>Date of test:</b>       | 2022-03-03 ~ 2022-03-18  |
| <b>Test result:</b>        | Pass   |

Test Engineer :



(Danny Xu)

Reviewed By :



(Leon Chen)

Approved By :



(Tom Xue)

## 1 General Description

### 1.1 Description of the EUT

|                          |   |
|--------------------------|---|
| Product name:            | Bracket Wireless Fast Charge Power Bank 10000mAh  |
| Model name:              | PPCXZ10   |
| Series Model:            | N/A   |
| Model difference:        | N/A   |
| Electrical rating:       | Type-C input: DC 5V/3A, 9V/2A<br>Type-C output: DC 5V/3A, 9V/2.22A, 12V/1.5A<br>Wireless output: 5W/7.5W/10W/15W<br>Total output: DC 5V/3A<br>Battery capacity: 1000mAh 3.85V 38.5Wh, Rated capacity: 5800mAh |
| Accessories:             | N/A   |
| <b>RF specification:</b> |   |
| Operation frequency:     | 115 kHz – 205 kHz   |
| Modulation type:         | ASK   |
| Antenna type:            | Coil Antenna  |

### 1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

| No.  | Emission test modes     |
|--|-------------------------|
| Mode 1   | Wireless charger (5W)   |
| Mode 2   | Wireless charger (7.5W) |
| Mode 3   | Wireless charger (10W)  |
| Mode 4   | Wireless charger (15W)  |
| Mode 5   | Stand-by                |
| <b>The test data only show worst test mode: Mode 4</b> |                         |

### 1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Support equipment list |              |              |                                   |
|------------------------|--------------|--------------|-----------------------------------|
| Description            | Model        | Serial No.   | Manufacturer                      |
| Smart phone            | IN2020       | /            | OnePlus                           |
| Smart phone            | A2404        | F17DLCK70DYN | Apple                             |
| Smart phone            | SM-G9650/DS  | R28K34V79NT  | Samsung                           |
| Adapter                | HW-090200CH0 | /            | Huizhou BYD Electronics Co., Ltd. |
| Support cable list     |              |              |                                   |
| Description            | Length (m)   | From         | To                                |
| /                      | /            | /            | /                                 |

## 2 Test facilities and accreditations

### 2.1 Test laboratory

|                        |   |
|------------------------|---|
| Test laboratory:       | Shenzhen Microtest Co., Ltd.  |
| Test site location:    | 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone:             | (86-755)88850135  |
| Fax:                   | (86-755)88850136  |
| CNAS Registration No.: | CNAS L5868  |
| FCC Registration No.:  | 448573  |

## 3 List of test equipment

| No.      | Equipment                                    | Manufacturer | Model    | Serial No. | Cal. date  | Cal. Due   |
|----------|--|--------------|----------|------------|------------|------------|
| MTI-E115 | Electric and Magnetic Field Probe – Analyzer | Narda        | EHP-200A | 101166     | 2021/06/02 | 2022/06/01 |

## 4 Test result

### 4.1.1 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 <sup>2</sup> ) | Averaging time (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(i) Limits for Occupational/Controlled Exposure</b>          |                               |                               |                                     |                          |
| 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                       |
| 1500-100000   |                               |                               | 5                                   | <6                       |
| <b>(ii) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                      |
| 1500-100000   |                               |                               | 1.0                                 | <30                      |

f = frequency in MHz

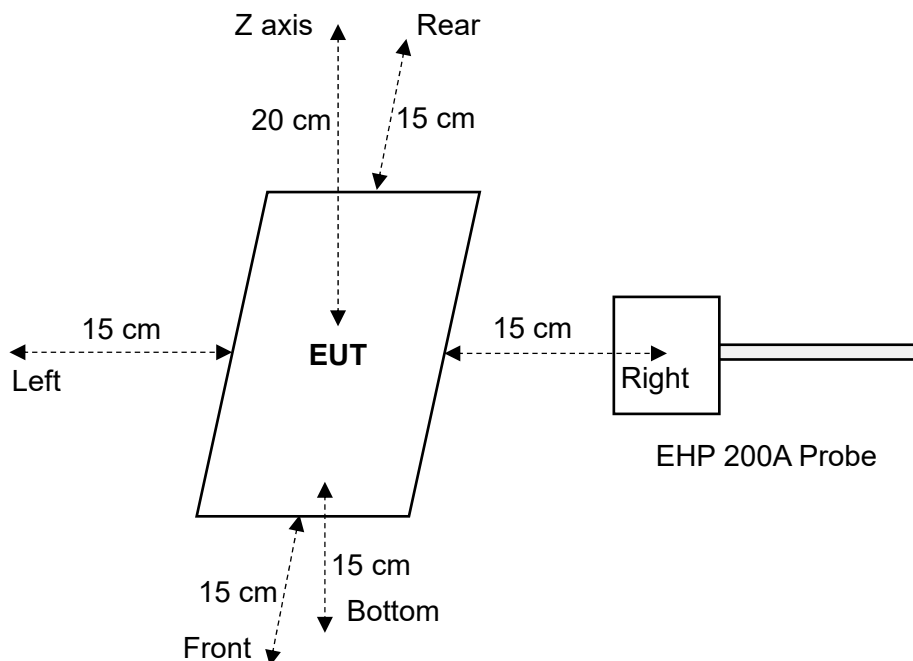
\* = Plane-wave equivalent power density

**Note 1:** Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

**Note 2:** General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



## 4.2 Test setup



### 4.3 Test Procedures

- a. The RF exposure test was performed in anechoic chamber.
- b. E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of KDB 680106 v03r01.

**4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01**

| Requirement   | Device   |
|---|--|
| 1. Power transfer frequency is less than 1 MHz.   | Yes. The operating frequencies are:<br>115 kHz – 205 kHz                   |
| 2. Output power from each primary coil is less than or equal to 15 watts  | Yes. The maximum output power is:<br>15W                                   |
| 3. 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 EUT has one source primary coils.                                 |
| 4. Client device is placed directly in contact with the transmitter.  | Yes. The client device is placed directly in contact with the transmitter. |
| 5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  | Yes. Mobile exposure conditions only.                                      |
| 6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit. | Yes.<br>See the test result in item 4.5.                                   |

#### 4.5 Test results

##### Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) |       |                     | H–field (A/m) |       |                     |
|---------|----------------|----------------|-------|---------------------|---------------|-------|---------------------|
|         |                | Measurement    | Limit | Max. Percentage (%) | Measurement   | Limit | Max. Percentage (%) |
| 1       | Z axis         | 0.3425         | 614   | 0.07%               | 0.0955        | 1.63  | 14.18%              |
|         | Left           | 0.3525         |       |                     | 0.0562        |       |                     |
|         | Right          | 0.3487         |       |                     | 0.0669        |       |                     |
|         | Front          | 0.3539         |       |                     | 0.0711        |       |                     |
|         | Rear           | 0.3539         |       |                     | 0.051         |       |                     |
|         | Bottom         | 0.448          |       |                     | 0.2312        |       |                     |

##### Test condition 2: Mode 4 operating mode with client device (50 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) |       |                | H–field (A/m) |       |                |
|---------|----------------|----------------|-------|----------------|---------------|-------|----------------|
|         |                | Measurement    | Limit | Percentage (%) | Measurement   | Limit | Percentage (%) |
| 1       | Z axis         | 0.3454         | 614   | 0.07%          | 0.094         | 1.63  | 14.79%         |
|         | Left           | 0.3558         |       |                | 0.0562        |       |                |
|         | Right          | 0.355          |       |                | 0.0596        |       |                |
|         | Front          | 0.3342         |       |                | 0.0706        |       |                |
|         | Rear           | 0.3398         |       |                | 0.0608        |       |                |
|         | bottom         | 0.4303         |       |                | 0.2276        |       |                |

##### Test condition 3: Mode 4 operating mode with client device (99 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) |       |                | H–field (A/m) |       |                |
|---------|----------------|----------------|-------|----------------|---------------|-------|----------------|
|         |                | Measurement    | Limit | Percentage (%) | Measurement   | Limit | Percentage (%) |
| 1       | Z axis         | 0.3355         | 614   | 0.07%          | 0.0874        | 1.63  | 14.02%         |
|         | Left           | 0.3476         |       |                | 0.0529        |       |                |
|         | Right          | 0.3301         |       |                | 0.0649        |       |                |
|         | Front          | 0.3469         |       |                | 0.0615        |       |                |
|         | Rear           | 0.3345         |       |                | 0.0451        |       |                |
|         | bottom         | 0.4296         |       |                | 0.2215        |       |                |

## Photographs of the Test Setup

See the Appendix - Test Setup Photos.

## Photographs of the EUT

See the Appendix - EUT Photos.

**----End of Report----**