



# Measurement and Test Report

For

**CE LINK LIMITED**

**Building M, LiCheng Technology Industrial Zone, GongHe Village, ShaJing**

**Town, ShenZhen City, China**

**FCC ID: A4X-PC1P18PNA**

|                                      |   |
|--------------------------------------|---|
| <b>FCC Rule(s):</b>                  | <u>KDB 680106 D01 V03</u>                     |
| <b>Product Description:</b>          | <u>Wireless Power Bank</u>                    |
| <b>Tested Model:</b>                 | <u>PC1P18PNA-WPC10</u>                        |
| <b>Report No.:</b>                   | <u>WTX20X04017271W-2</u>                      |
| <b>Sample Receipt Date:</b>          | <u>Apr. 08, 2020</u>                          |
| <b>Tested Date:</b>                  | <u>Apr. 08, 2020 to Apr. 23, 2020</u>         |
| <b>Issued Date:</b>                  | <u>May. 26, 2020</u>                          |
| <b>Tested By:</b>                    | <u>Jason Su / Engineer</u> <i>Jason Su</i>    |
| <b>Reviewed By:</b>                  | <u>Lion Cai / RF Manager</u> <i>Lion Cai</i>  |
| <b>Approved &amp; Authorized By:</b> | <u>Silin Chen / Manager</u> <i>Silin Chen</i> |
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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 Waltek Testing Group (Shenzhen) Co., Ltd.



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## Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | May. 26, 2020 | Original    |
| /           | /             | /           |



# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

### Client Information

Applicant: CE LINK LIMITED  
 Address of applicant: Building M,LiCheng Technology Industrial Zone,  
 GongHe Village, ShaJing Town, ShenZhen City,  
 China

Manufacturer: CE LINK LIMITED  
 Address of manufacturer: Building M,LiCheng Technology Industrial Zone,  
 GongHe Village, ShaJing Town, ShenZhen City,  
 China

Factory: SuiChuan CE LINK LIMITED.  
 Address of factory: SuiChuan county industrial park east zone, Ji' an  
 city, Jiangxi province, China.

| General Description of EUT   |                     |
|--|---------------------|
| Product Name:  | Wireless Power Bank |
| Trade Name:  | CE-LINK             |
| Model No.:   | PC1P18PNA-WPC10     |
| Adding Model(s):   | /                   |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> |                     |

| Technical Characteristics of EUT |              |
|----------------------------------|--------------|
| Frequency Range:                 | 110~205kHz   |
| Antenna Type:                    | Coil Antenna |
| Rated Voltage:                   | DC5V / DC9V  |
| Rated Current:                   | 1A / 1.1A    |
| Rated Power:                     | 5W / 10W     |



## 1.2 Test Equipment List and Details

| No.       | Description              | Manufacturer | Model   | Serial No. | Cal Date   | Due Date   |
|-----------|--------------------------|--------------|---------|------------|------------|------------|
| SEMT-1240 | MPE Measuring Instrument | Narda        | ELT-400 | M-0170     | 2019-07-15 | 2020-07-14 |



## 2. RF Exposure Test Report

### 2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

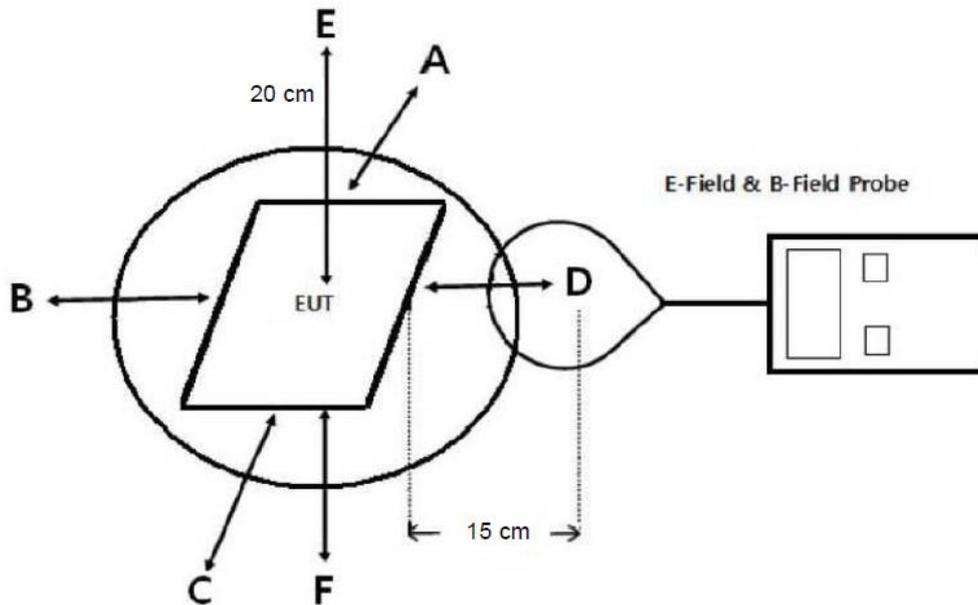
| Frequency range (MHz)  | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits 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                        |
| 300-1,500  |                               |                               | f/300                               | 6                        |
| 1,500-100,000  |                               |                               | 5                                   | 6                        |
| <b>(B) 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                       |
| 300-1,500  |                               |                               | f/1500                              | 30                       |
| 1,500-100,000  |                               |                               | 1.0                                 | 30                       |

f = frequency in MHz \* = Plane-wave equivalent power density

### 2.2 Test Conditions

| Test Mode                    | Description       | Remark | Power Supply Mode                      |
|------------------------------|-------------------|--------|--|
| TM1                          | Wireless Charging | /      | USB-C Input DC5V/3A;<br>Output:DC5V/1A |
| TM2                          | Wireless Charging | /      | Battery DC3.7V;<br>Output:DC9V/1.1A    |
| <b>Measurement Distance:</b> | 15 cm             |        |  |

## 2.3 Test Procedure



- The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 680106 D01 V03.

## 2.4 Test Result

The EUT dose comply with item 5.2 of KDB 680106 D01V03

- Power transfer frequency is less than 1 MHz  
Yes, the device operate in the frequency range from 110kHz to 205kHz.
- Output power from each primary coil is less than 15 watts  
Yes, the maximum output power of the primary coil is less than 15W.
- The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils  
Yes, the client device includes only single primary coils.
- Client device is inserted in or placed directly in contact with the transmitter  
Yes, Client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  
Yes, It is mobile exposure conditions only.



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 than 50% of the MPE limit, refer to test TM1, TM2 list, and the coils can't transmitted simultaneous.

*Test Mode: TM1*

| <b>Electric Field Emissions</b> |                            |                   |                        |
|---------------------------------|----------------------------|-------------------|------------------------|
| <b>Test Position</b>            | <b>Measure Value (V/m)</b> | <b>Limit(V/m)</b> | <b>50% Limit (V/m)</b> |
| Top                             | 47                         | 614               | 307                    |
| Bottom                          | 53                         | 614               | 307                    |
| Side 1                          | 42                         | 614               | 307                    |
| Side 2                          | 46                         | 614               | 307                    |
| Side 3                          | 48                         | 614               | 307                    |
| Side 4                          | 50                         | 614               | 307                    |
| <b>Magnetic Field Emissions</b> |                            |                   |                        |
| <b>Test Position</b>            | <b>Measure Value (A/m)</b> | <b>Limit(A/m)</b> | <b>50% Limit (A/m)</b> |
| Top                             | 0.39                       | 1.63              | 0.815                  |
| Bottom                          | 0.42                       | 1.63              | 0.815                  |
| Side 1                          | 0.35                       | 1.63              | 0.815                  |
| Side 2                          | 0.37                       | 1.63              | 0.815                  |
| Side 3                          | 0.40                       | 1.63              | 0.815                  |
| Side 4                          | 0.41                       | 1.63              | 0.815                  |



Test Mode: TM2

| <b>Electric Field Emissions</b> |                            |                   |                        |
|---------------------------------|----------------------------|-------------------|------------------------|
| <b>Test Position</b>            | <b>Measure Value (V/m)</b> | <b>Limit(V/m)</b> | <b>50% Limit (V/m)</b> |
| Top                             | 68                         | 614               | 307                    |
| Bottom                          | 71                         | 614               | 307                    |
| Side 1                          | 63                         | 614               | 307                    |
| Side 2                          | 62                         | 614               | 307                    |
| Side 3                          | 67                         | 614               | 307                    |
| Side 4                          | 66                         | 614               | 307                    |
| <b>Magnetic Field Emissions</b> |                            |                   |                        |
| <b>Test Position</b>            | <b>Measure Value (A/m)</b> | <b>Limit(A/m)</b> | <b>50% Limit (A/m)</b> |
| Top                             | 0.47                       | 1.63              | 0.815                  |
| Bottom                          | 0.53                       | 1.63              | 0.815                  |
| Side 1                          | 0.54                       | 1.63              | 0.815                  |
| Side 2                          | 0.52                       | 1.63              | 0.815                  |
| Side 3                          | 0.49                       | 1.63              | 0.815                  |
| Side 4                          | 0.49                       | 1.63              | 0.815                  |

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