

# FCC TEST REPORT

## FCC ID:2AZW8-1819561

Report No..... : ZHT-241218112W01-2  
Product..... : 3000L Rechargeable Lantern  
Trademark..... : Duracell  
Model(s)..... : 1819561  
Model difference..... : /  
Applicant..... : NINGBO EVERNEW ELECTRIC TECHNOLOGY CO., LTD.  
Address..... : Room 1402, Herong Building A, Ningbo, China  
Manufacturer..... : Ningbo Great Pod Electrical Appliance Co., Ltd.  
Address..... : Dongzhou, Wanghai, Xidian, Ninghai, Ningbo, China  
Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.  
Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Date of Receipt..... : Dec. 18, 2024  
Date of Test(s)..... : Dec. 18, 2024 to Dec. 24, 2024  
Date of Issue..... : Dec. 30, 2024  
Test Standard(s)..... : FCC CFR 47 PART 1 , 1.1310  
Test procedure : : KDB 680106 D01 Wireless Power Transfer v04

In the configuration tested, the EUT complied with the standards specified above.

Tested by:

*Kimi Lu*

Kimi Lu/ Engineer

Reviewed by:

*Baret Wu*

Baret Wu/ Director

Approved by:

*Levi Lee*

Levi Lee/ Manager

**Note:** The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

## RF Exposure Evaluation

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Product Name:      | 3000L Rechargeable Lantern                          |
| Product Model No.: | 1819561                                             |
| Test Auxiliary:    | Wireless charging load                              |
| Transmitting mode: | Keep the EUT in continuously wireless charging mode |

| Test Modes                            |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Mode 1                                | AC adapter charging mode + Wireless charging mode(5W) |
| Mode 2                                | Wireless charging(5W)                                 |
| Note:1.The EUT supports portable use. |                                                       |

| Auxiliary equipment |                        |           |                 |            |      |
|---------------------|------------------------|-----------|-----------------|------------|------|
| Item                | Equipment              | Mfr/Brand | Model/Type No.  | Series No. | Note |
| E-1                 | Wireless charging load | N/A       | EESON           | N/A        | AE   |
| E-2                 | AC adapter             | N/A       | CHG-WALL-PD-45W | N/A        | AE   |

## 1 Measuring Standard

KDB 680106 D01 Wireless Power Transfer v04

## 2 Requirements

According to the item 5 of KDB 680106 D01 v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

| Requirements of section 3 of KDB 680106 D01                                                                                                                                         | Yes/ No | Description                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------|
| Mobile Device and Portable Device Configurations                                                                                                                                    | Yes     | Portable Device                                                       |
| Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz                                                                                                 | Yes     | The device operate in the frequency range110.1kHz-205kHz              |
| RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use | No      | The EUT H-field and E-field strengths at 0 cm surrounding the device. |

### 3 Limits

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)

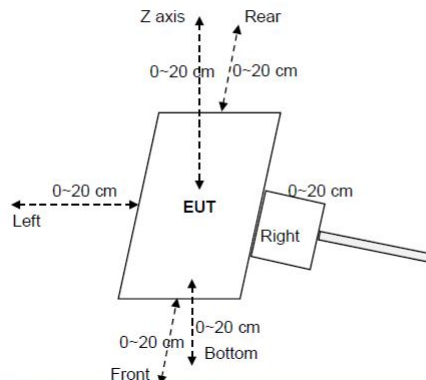
Limits for Maximum Permissible Exposure (MPE)

| 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 Exposures</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                        |
| 1500-100,000                                                   | /                             | /                             | 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                       |
| 300-1500                                                       | /                             | /                             | f/1500                              | 30                       |
| 1500-100,000                                                   | /                             | /                             | 1.0                                 | 30                       |

F=frequency in MHz  
 \*=Plane-wave equivalent power density  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

### 4 Test Setup

For portable exposure conditions:



### 5 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (0-20 cm from all sides and 0-20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT' s test position A, B, C, D and E is valid for the E and H field measurements.

## 6 Test Instruments list

| Test Equipment                                             | Manufacturer | Model No.             | SN.  | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
|------------------------------------------------------------|--------------|-----------------------|------|------------------------|----------------------------|
| Near-field Electric and<br>Electric Field Sensor<br>System | SPEAG        | MAGPy-<br>8H3D+ED3 V2 | 3101 | Mar. 12, 2024          | Mar. 11, 2026              |
| Test software: MAGPY.exe V2.6                              |              |                       |      |                        |                            |

## 7 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item    | Uncertainty         |
|-----|---------|---------------------|
| 1   | H-field | $\pm 0.7\text{dB}$  |
| 2   | E-field | $\pm 1.06\text{dB}$ |

### Decision Rule

- ☒ Uncertainty is not included  
☐ Uncertainty is included

## 8 Test Result

All modes were tested, only the worst-case was recorded in the report. Mode 2 is the worst mode.

| E-Filed Strength from the edges surrounding the EUT (V/m)                                                                 |                       |                        |                         |                        |                         |                       |                          |              |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------|-------------------------|-----------------------|--------------------------|--------------|
| The measurement probe was placed at test distance which is between the edge of the charger and the geometric of probe(cm) | Frequency Range (MHz) | Test Position A (Left) | Test Position B (Right) | Test Position C (Rear) | Test Position D (Front) | Test Position E (Top) | Test Position F (Bottom) | Limits (V/m) |
| 0                                                                                                                         | 0.1101-0.205          | 1.90                   | 1.89                    | 1.90                   | 1.93                    | 1.92                  | 1.83                     | 614          |
| 2                                                                                                                         | 0.1101-0.205          | 1.87                   | 1.85                    | 1.86                   | 1.83                    | 1.84                  | 1.85                     | 614          |
| 4                                                                                                                         | 0.1101-0.205          | 1.83                   | 1.82                    | 1.81                   | 1.81                    | 1.82                  | 1.80                     | 614          |
| 6                                                                                                                         | 0.1101-0.205          | 1.73                   | 1.71                    | 1.72                   | 1.78                    | 1.76                  | 1.78                     | 614          |
| 8                                                                                                                         | 0.1101-0.205          | 1.70                   | 1.67                    | 1.70                   | 1.76                    | 1.73                  | 1.75                     | 614          |
| 10                                                                                                                        | 0.1101-0.205          | 1.66                   | 1.66                    | 1.68                   | 1.72                    | 1.70                  | 1.62                     | 614          |
| 12                                                                                                                        | 0.1101-0.205          | 1.63                   | 1.63                    | 1.63                   | 1.70                    | 1.68                  | 1.55                     | 614          |
| 14                                                                                                                        | 0.1101-0.205          | 1.52                   | 1.55                    | 1.60                   | 1.68                    | 1.64                  | 1.42                     | 614          |
| 16                                                                                                                        | 0.1101-0.205          | 1.49                   | 1.53                    | 1.51                   | 1.62                    | 1.61                  | 1.40                     | 614          |
| 18                                                                                                                        | 0.1101-0.205          | 1.43                   | 1.50                    | 1.49                   | 1.54                    | 1.54                  | 1.38                     | 614          |
| 20                                                                                                                        | 0.1101-0.205          | 1.39                   | 1.43                    | 1.47                   | 1.43                    | 1.46                  | 1.35                     | 614          |

| H-Filed Strength from the edges surrounding the EUT (A/m)                                                                 |                       |                            |                             |                            |                             |                           |                              |              |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|---------------------------|------------------------------|--------------|
| The measurement probe was placed at test distance which is between the edge of the charger and the geometric of probe(cm) | Frequency Range (MHz) | Test Position A (Left) A/m | Test Position B (Right) A/m | Test Position C (Rear) A/m | Test Position D (Front) A/m | Test Position E (Top) A/m | Test Position F (Bottom) A/m | Limits (A/m) |
| 0                                                                                                                         | 0.1101-0.205          | 1.50                       | 1.53                        | 1.52                       | 1.53                        | 1.52                      | 1.54                         | 1.63         |
| 2                                                                                                                         | 0.1101-0.205          | 1.48                       | 1.50                        | 1.46                       | 1.48                        | 1.50                      | 1.49                         | 1.63         |
| 4                                                                                                                         | 0.1101-0.205          | 1.43                       | 1.48                        | 1.38                       | 1.48                        | 1.46                      | 1.48                         | 1.63         |
| 6                                                                                                                         | 0.1101-0.205          | 1.40                       | 1.45                        | 1.36                       | 1.46                        | 1.45                      | 1.46                         | 1.63         |
| 8                                                                                                                         | 0.1101-0.205          | 1.36                       | 1.44                        | 1.32                       | 1.45                        | 1.41                      | 1.44                         | 1.63         |
| 10                                                                                                                        | 0.1101-0.205          | 1.33                       | 1.39                        | 1.30                       | 1.43                        | 1.39                      | 1.40                         | 1.63         |
| 12                                                                                                                        | 0.1101-0.205          | 1.31                       | 1.35                        | 1.44                       | 1.41                        | 1.36                      | 1.44                         | 1.63         |
| 14                                                                                                                        | 0.1101-0.205          | 1.27                       | 1.33                        | 1.41                       | 1.39                        | 1.34                      | 1.41                         | 1.63         |
| 16                                                                                                                        | 0.1101-0.205          | 1.22                       | 1.31                        | 1.38                       | 1.37                        | 1.32                      | 1.38                         | 1.63         |
| 18                                                                                                                        | 0.1101-0.205          | 1.19                       | 1.27                        | 1.34                       | 1.36                        | 1.29                      | 1.31                         | 1.63         |
| 20                                                                                                                        | 0.1101-0.205          | 1.17                       | 1.24                        | 1.32                       | 1.34                        | 1.24                      | 1.22                         | 1.63         |

## 9 Test Set-up Photo

