



## RF Exposure Evaluation

For

Zhejiang Chuneng New Energy Co., Ltd

Portable Power Station

Test Model: Alpha2000

Additional Model No.: Please Refer to Page 6

Prepared for : Zhejiang Chuneng New Energy Co., Ltd  
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Innovation Park, Si'an Town, Changxing County, Huzhou City, Zhejiang  
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Date of receipt of test sample : May 10, 2025  
Number of tested samples : 2  
Sample No. : A250508100-1, A250508100-2  
Serial number : Prototype  
Date of Test : May 10, 2025 ~ June 05, 2025  
Date of Report : June 06, 2025



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| RF Exposure Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>LCSA05085181ED</b>                                                                                                                                                                                          |
| <b>Date of Issue</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | June 06, 2025                                                                                                                                                                                                  |
| <b>Testing Laboratory Name</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Shenzhen LCS Compliance Testing Laboratory Ltd.</b>                                                                                                                                                         |
| <b>Address</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China                                                                                     |
| <b>Testing Location/ Procedure</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Full application of Harmonised standards <input checked="" type="checkbox"/><br>Partial application of Harmonised standards <input type="checkbox"/><br>Other standard testing method <input type="checkbox"/> |
| <b>Applicant's Name</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Zhejiang Chuneng New Energy Co., Ltd</b>                                                                                                                                                                    |
| <b>Address</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3rd Floor, Building C, Si'an West Lake Science and Technology Innovation Park, Si'an Town, Changxing County, Huzhou City, Zhejiang Province.                                                                   |
| <b>Test Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                |
| <b>Standard</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC KDB publication 447498 D01 General RF Exposure Guidance v06<br>FCC CFR 47 part1 1.1310<br>FCC CFR 47 part2 2.1091                                                                                          |
| <b>Test Report Form No.</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TRF-4-E-214 A/0                                                                                                                                                                                                |
| <b>TRF Originator</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Shenzhen LCS Compliance Testing Laboratory Ltd.                                                                                                                                                                |
| <b>Master TRF</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Dated 2011-03                                                                                                                                                                                                  |
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| <b>Test Item Description.</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                |
| <b>Trade Mark</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                                                                                                                                                                                                            |
| <b>Test Model</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Alpha2000                                                                                                                                                                                                      |
| <b>Ratings</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please Refer to Page 6                                                                                                                                                                                         |
| <b>Result</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>PASS</b>                                                                                                                                                                                                    |

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## RF Exposure Evaluation

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| <b>Test Report No. :</b> LCSA05085181ED | <u>June 06, 2025</u><br>Date of issue |
|-----------------------------------------|---------------------------------------|

|                          |                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT.....                 | : Portable Power Station                                                                                                                                                                                                                                 |
| Test Model.....          | : Alpha2000                                                                                                                                                                                                                                              |
| <b>Applicant.....</b>    | <b>: Zhejiang Chuneng New Energy Co., Ltd</b><br>3rd Floor, Building C, Si'an West Lake Science and Technology<br>Address..... : Innovation Park, Si'an Town, Changxing County, Huzhou City,<br>Zhejiang Province.<br>Telephone..... : /<br>Fax..... : / |
| <b>Manufacturer.....</b> | <b>: Zhejiang Chuneng New Energy Co., Ltd</b><br>3rd Floor, Building C, Si'an West Lake Science and Technology<br>Address..... : Innovation Park, Si'an Town, Changxing County, Huzhou City,<br>Zhejiang Province.<br>Telephone..... : /<br>Fax..... : / |
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|                    |             |
|--------------------|-------------|
| <b>Test Result</b> | <b>PASS</b> |
|--------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

| Report Version | Issue Date    | Revision Content | Revised By |
|----------------|---------------|------------------|------------|
| 000            | June 06, 2025 | Initial Issue    | ---        |
|                |               |                  |            |
|                |               |                  |            |





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## 1. Product Information

|                      |                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                  | : Portable Power Station                                                                                                                                                                                                                                                                                                                       |
| Test Model           | : Alpha2000                                                                                                                                                                                                                                                                                                                                    |
| Additional Model No. | : Alpha2000Pro, Alpha2000X, Alpha2000XPro                                                                                                                                                                                                                                                                                                      |
| Model Declaration    | : PCB board, structure and internal of these model(s) are the same,<br>So no additional models were tested                                                                                                                                                                                                                                     |
| Ratings              | : Battery: 2048Wh 51.2V 40Ah<br>DC Input: 12V-60V 800W Max<br>AC Input: 100V-120V 60Hz 1500W Max<br>AC Output: (120V~60Hz) 2000W Max<br>USB-A: 5V 2.4A<br>USB-A Fast Charge: (5~12V) 18W Max<br>Type-C: PD 100 W&Max 20V 5A<br>Cigar Lighter: 12V 10A 120W Max<br>LED: 2-3W (Low, High, SOS, Flash, Breath mode)<br>Wireless Charging: 15W Max |
| Hardware Version     | : /                                                                                                                                                                                                                                                                                                                                            |
| Software Version     | : /                                                                                                                                                                                                                                                                                                                                            |
| Bluetooth            | :                                                                                                                                                                                                                                                                                                                                              |
| Frequency Range      | : 2402MHz~2480MHz                                                                                                                                                                                                                                                                                                                              |
| Channel Number       | : 40 channels for Bluetooth V5.0 (DTS)                                                                                                                                                                                                                                                                                                         |
| Channel Spacing      | : 2MHz for Bluetooth V5.0 (DTS)                                                                                                                                                                                                                                                                                                                |
| Modulation Type      | : GFSK for Bluetooth V5.0 (DTS)                                                                                                                                                                                                                                                                                                                |
| Bluetooth Version    | : V5.0                                                                                                                                                                                                                                                                                                                                         |
| Antenna Description  | : PCB Antenna, 2.72dBi(Max.)                                                                                                                                                                                                                                                                                                                   |
| WIFI(2.4G Band)      | :                                                                                                                                                                                                                                                                                                                                              |
| Frequency Range      | : 2412MHz~2462MHz                                                                                                                                                                                                                                                                                                                              |
| Channel Spacing      | : 5MHz                                                                                                                                                                                                                                                                                                                                         |
| Channel Number       | : 11 Channels for 20MHz bandwidth (2412~2462MHz)<br>7 Channels for 40MHz bandwidth (2422~2452MHz)                                                                                                                                                                                                                                              |
| Modulation Type      | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                     |
| Antenna Description  | : PCB Antenna, 2.72dBi(Max.)                                                                                                                                                                                                                                                                                                                   |
| Wireless Charging    | :                                                                                                                                                                                                                                                                                                                                              |
| Operating Frequency  | : 110.0~205.0KHz                                                                                                                                                                                                                                                                                                                               |
| Modulation Type      | : ASK                                                                                                                                                                                                                                                                                                                                          |
| Antenna Type         | : Coil Antenna                                                                                                                                                                                                                                                                                                                                 |

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





## 2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR 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. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

## 3. Limit

### 3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

### 3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 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                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                          | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|-----------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Uncontrolled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                     | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 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



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#### 4. MPE Calculation Method

Predication of MPE limit at a given distance  
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

#### 5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

| Internal/<br>External Identification | Antenna type<br>and antenna<br>number | Operate frequency<br>band | Maximum antenna gain                    | Notes           |
|--------------------------------------|---------------------------------------|---------------------------|-----------------------------------------|-----------------|
| Internal                             | PCB antenna                           | 2400MHz ~ 2500MHz         | Bluetooth: 2.72dBi<br>2.4GWIFI: 2.72dBi | BT/WIFI Antenna |

#### 6. Conducted Power

[BLE 1M]

| Mode | Channel | Frequency<br>(MHz) | Peak Conducted Output Power<br>(dBm) |
|------|---------|--------------------|--------------------------------------|
| GFSK | 0       | 2402               | 0.96                                 |
|      | 19      | 2440               | 1.00                                 |
|      | 39      | 2480               | -0.02                                |

[BLE 2M]

| Mode | Channel | Frequency<br>(MHz) | Peak Conducted Output Power<br>(dBm) |
|------|---------|--------------------|--------------------------------------|
| GFSK | 0       | 2402               | 0.87                                 |
|      | 19      | 2440               | 0.81                                 |
|      | 39      | 2480               | -0.21                                |

[2.4G WIFI]

| Mode       | Channel | Frequency<br>(MHz) | Peak Conducted Output Power<br>(dBm) |
|------------|---------|--------------------|--------------------------------------|
| 11B        | 1       | 2412               | 14.82                                |
|            | 6       | 2437               | 14.89                                |
|            | 11      | 2462               | 15.21                                |
| 11G        | 1       | 2412               | 14.40                                |
|            | 6       | 2437               | 13.87                                |
|            | 11      | 2462               | 13.60                                |
| 11N20 SISO | 1       | 2412               | 13.95                                |
|            | 6       | 2437               | 13.25                                |
|            | 11      | 2462               | 13.09                                |
| 11N40 SISO | 3       | 2422               | 13.61                                |
|            | 6       | 2437               | 12.49                                |
|            | 9       | 2452               | 13.39                                |



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## 7. Manufacturing Tolerance

| BLE 1M (Peak)        |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | 1.0        | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

| BLE 2M (Peak)        |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | 0          | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

| [2.4G WIFI]          |           |           |            |
|----------------------|-----------|-----------|------------|
| 11B (Peak)           |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 14.0      | 14.0      | 15.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11G (Peak)           |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 14.0      | 13.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N20 (Peak)         |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 13.0      | 13.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N40 (Peak)         |           |           |            |
| Channel              | Channel 3 | Channel 6 | Channel 9  |
| Target (dBm)         | 13.0      | 12.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |

## 8. Measurement Results

### 8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r=20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 2.0          | 1.5849 | 2.72               | 1.8707                | 0.0006                    | 1.0000                           |





## [BLE 2M]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.0          | 1.2589 | 2.72               | 1.8707                | 0.0005                    | 1.0000                           |

## [2.4G WIFI]

| Modulation Type   | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                   | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11b      | 16.0         | 39.8107 | 2.72               | 1.8707                | 0.0148                    | 1.0000                           |
| IEEE 802.11g      | 15.0         | 31.6228 | 2.72               | 1.8707                | 0.0118                    | 1.0000                           |
| IEEE 802.11n HT20 | 14.0         | 25.1189 | 2.72               | 1.8707                | 0.0094                    | 1.0000                           |
| IEEE 802.11n HT40 | 14.0         | 25.1189 | 2.72               | 1.8707                | 0.0094                    | 1.0000                           |

**Remark:**

1. Output power including tune-up tolerance;
2. Output power was adjusted to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

**8.2 Simultaneous Transmission MPE Evaluation**

The EUT equipped with one BLE/WIFI antenna and two WPT antenna. So, need consider simultaneous transmission.

**Simultaneous Transmission MPE**

| BLE Max MPE (Ratio) | WIFI Max MPE (Ratio) | WPT Max MPE (Ratio) | simultaneous MPE (Ratio) | MPE Limits (Ratio) |
|---------------------|----------------------|---------------------|--------------------------|--------------------|
| 0.0006              | 0.0148               | 0.1448              | 0.1602                   | 1.0000             |

**9. Conclusion**

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

**10. Description of Test Facility**

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

**11. Measurement Uncertainty****BLE/2.4GWIFI:**

| Test Item    | Frequency Range | Uncertainty | Note |
|--------------|-----------------|-------------|------|
| Output power | 1GHz-40GHz      | ±0.57dB     | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----

