

## FCC RF EXPOSURE REPORT

*For*

**Power Station Inverter**

**MODEL NUMBER: EF-DU-001**

**REPORT NUMBER: 4791873925.1-RF-4**

**ISSUE DATE: August 26, 2025**

**FCC ID: 2A2P9-PD100**

*Prepared for*

**EcoFlow Inc.**

**RM 401,Plant #1,Runheng Industrial Zone, Fuhai Street,Bao'an District, Shenzhen,  
518000, China**

*Prepared by*

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch**

**Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan,  
Guangdong, China**

**Tel: +86 769 22038881**

**Fax: +86 769 33244054**

**Website: [www.ul.com](http://www.ul.com)**

## Revision History

| Rev. | Issue Date      | Revisions     | Revised By |
|------|-----------------|---------------|------------|
| V0   | August 26, 2025 | Initial Issue |            |

## TABLE OF CONTENTS

|                                       |   |
|---------------------------------------|---|
| 1. ATTESTATION OF TEST RESULTS .....  | 4 |
| 2. TEST METHODOLOGY .....             | 5 |
| 3. FACILITIES AND ACCREDITATION ..... | 5 |
| 4. REQUIREMENT .....                  | 6 |

## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: EcoFlow Inc.  
Address: RM 401,Plant #1,Runheng Industrial Zone, Fuhai Street,Bao'an District, Shenzhen, 518000, China

### Manufacturer Information

Company Name: EcoFlow Inc.  
Address: RM 401,Plant #1,Runheng Industrial Zone, Fuhai Street,Bao'an District, Shenzhen, 518000, China

### EUT Information

EUT Name: Power Station Inverter  
Model: EF-DU-001  
Brand: ECOFLOW  
Sample Received Date: July 7, 2025  
Sample Status: Normal  
Sample ID: 8676304  
Date of Tested: July 26, 2025 to August 26, 2025

| APPLICABLE STANDARDS                                |              |
|---|--------------|
| STANDARD  | TEST RESULTS |
| 447498 D04 Interim General RF Exposure Guidance v01 | PASS         |

Prepared By:



Johnson Liu  
Laboratory Engineer

Checked By:



Kebo Zhang  
Operations Leader

Approved By:



Stephen Guo  
Operations Manager

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

## 3. FACILITIES AND ACCREDITATION

|                           |   |
|---------------------------|---|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p><b>ISED (Company No.: 21320)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.<br/>Facility Name:<br/>Chamber E, the VCCI registration No. is G-20240 and R-20248<br/>Shielding Room F, the VCCI registration No. is C-20202 and T-20202</p> |
|---------------------------|---|

**Note 1:**

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

**Note 2:**

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

**Note 3:**

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

## 4. REQUIREMENT

### LIMIT AND CALCULATION METHOD

According to 447498 D04 Interim General RF Exposure Guidance v01,

#### 2.1.4 MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.<sup>10</sup> For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

#### MPE-based Exemption

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and  $ERP_{20\text{cm}}$  is per Formula (B.1).

## **CALCULATED RESULTS**

### **For Single RF Source**

| Operating Mode | Max. Tune up Power | Max. Antenna Gain | EIRP  | ERP   | ERP     | Distance | Limit Threshold |
|----------------|--------------------|-------------------|-------|-------|---------|----------|-----------------|
|                | (dBm)              | (dBi)             | (dBm) | (dBm) | (mW)    | (cm)     | (mW)            |
| BLE            | 11                 | 7.75              | 18.75 | 16.6  | 45.709  | 20       | 3060            |
| WIFI2.4G       | 19                 | 7.75              | 26.75 | 24.6  | 288.403 | 20       | 3060            |
| WIFI5G         | 20.5               | 6.24              | 26.74 | 24.59 | 287.740 | 20       | 3060            |

### **For Simultaneous Operations:**

#### **Condition1:**

| Operating Mode | ERP     | Limit Threshold | Ratio (mW/cm <sup>2</sup> ) | Sum of Ratios (mW/cm <sup>2</sup> ) | Limit of Ratios (mW/cm <sup>2</sup> ) |
|----------------|---------|-----------------|-----------------------------|-------------------------------------|---------------------------------------|
|                | (mW)    | (mW)            |                             |                                     |                                       |
| BLE            | 45.709  | 3060            | 0.01494                     | 0.10919                             | 1                                     |
| WIFI2.4G       | 288.403 | 3060            | 0.09425                     |                                     |                                       |

#### **Condition2:**

| Operating Mode | ERP     | Limit Threshold | Ratio (mW/cm <sup>2</sup> ) | Sum of Ratios (mW/cm <sup>2</sup> ) | Limit of Ratios (mW/cm <sup>2</sup> ) |
|----------------|---------|-----------------|-----------------------------|-------------------------------------|---------------------------------------|
|                | (mW)    | (mW)            |                             |                                     |                                       |
| BLE            | 45.709  | 3060            | 0.01494                     | 0.10897                             | 1                                     |
| WIFI5G         | 287.740 | 3060            | 0.09403                     |                                     |                                       |

#### **Condition3:**

| Operating Mode | ERP     | Limit Threshold | Ratio (mW/cm <sup>2</sup> ) | Sum of Ratios (mW/cm <sup>2</sup> ) | Limit of Ratios (mW/cm <sup>2</sup> ) |
|----------------|---------|-----------------|-----------------------------|-------------------------------------|---------------------------------------|
|                | (mW)    | (mW)            |                             |                                     |                                       |
| WIFI2.4G       | 288.403 | 3060            | 0.09425                     | 0.18828                             | 1                                     |
| WIFI5G         | 287.740 | 3060            | 0.09403                     |                                     |                                       |

#### **Note:**

1. The calculated distance is 20 cm.
2. The power comes from operation description.
3. Only BLE & WLAN 2.4G, BLE & WLAN 5G, WLAN 2.4G & WLAN 5G can transmit simultaneously. (declared by client).

## **END OF REPORT**