



FCC RF EXPOSURE REPORT

For

EcoFlow OCEAN Smart Electrical Panel

MODEL NUMBER: EF-SHP-40

REPORT NUMBER: 4791873934.1-2

ISSUE DATE: July 30, 2025

FCC ID: 2A2P9-HLKLD1039

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

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|---------------|---------------|------------|
| V0 | July 30, 2025 | Initial Issue | |

TABLE OF CONTENTS

| | |
|---------------------------------------|---|
| 1. ATTESTATION OF TEST RESULTS | 4 |
| 2. TEST METHODOLOGY | 5 |
| 3. FACILITIES AND ACCREDITATION | 5 |
| 4. DESCRIPTION OF EUT | 6 |
| 5. REQUIREMENT | 7 |

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

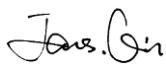
Company Name: EcoFlow Inc.
Address: RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, 518000, China

EUT Description

EUT Name: EcoFlow OCEAN Smart Electrical Panel
Model: EF-SHP-40
Brand Name: ECOFLOW
Sample Status: Normal
Sample ID: 8682812-1
Sample Received Date: July 8, 2025
Date of Tested: July 10~28, 2025

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC 47CFR§2.1093 | PASS |
| KDB-447498 D01 V06 | PASS |

Prepared By:



James Qin
Project Engineer

Checked By:



Kebo Zhang
Senior Project Engineer

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 2.1093&1.1310 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

| | |
|---------------------------|--|
| Accreditation Certificate | <p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) 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>ISED (Company No.: 21320) 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> |
|---------------------------|--|

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.

4. DESCRIPTION OF EUT

| | |
|----------|--------------------------------------|
| EUT Name | EcoFlow OCEAN Smart Electrical Panel |
| Model | EF-SHP-40 |

| | |
|----------------------|------------------|
| Frequency Range: | 10.5 ~ 10.55 GHz |
| Channel Number: | 1 |
| Center frequency | 10.5268 GHz |
| Type of Modulation: | CW |
| Antenna Type: | Linear Antenna |
| Antenna Gain: | 3.33 dBi |
| Normal Test Voltage: | DC 18 V |

5. REQUIREMENT

LIMIT AND CALCULATION 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 2.1093, Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1) of this chapter.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|---|---|
| 0.3 -- 1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34 -- 30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30 -- 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 -- 1500 | -- | -- | f/1500 | 30 |
| 1500 -- 100,000 | -- | -- | 1.0 | 30 |

CALCULATION METHOD

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

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

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

| (Worst case) | | | | |
|----------------|------------|--------------|------------------------|-------|
| Operating Mode | Max. Power | Antenna Gain | Power density | Limit |
| | (dBm) | (dBi) | (mW/ cm ²) | |
| CW | -1.15 | 3.33 | 0.00033 | 1 |

Note:

1. The calculated distance is 5mm.
2. The power comes from operation description.

$$\text{EIRP} = 97.38 \text{ dBuV/m in 3m} = (97.38 - 95.2) \text{ dBm} = 2.18 \text{ dBm}$$

$$\text{Max. Conducted power} = 2.18 - 3.33 = -1.15 \text{ dBm}$$

$$3. \text{ WIFI 2.4G + CW} = 0.1555 + 0.00033 = 0.15583 \text{ (mW/ cm}^2\text{)}$$

Therefor the maximum calculations of above situations are less than the "1" limit.

For the WIFI module worst case PD, refer to FCC ID "2A2P9-AP6275S".

END OF REPORT