

## **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.**

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*Prepared by*

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## Revision History

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

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## 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

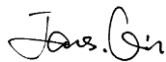
Company Name: EcoFlow Inc.  
Address: RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, 518000, China

### 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

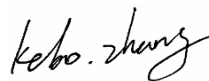
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## 2. TEST METHODOLOGY

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><b>A2LA (Certificate No.: 4102.01)</b> 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> 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> 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>
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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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes)
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

### 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 <sup>2</sup> )	
CW	-1.15	3.33	0.00033	1

Note:

1. The calculated distance is 5mm.

2. The power comes from operation description.

EIRP = 97.38 dBuV/m in 3m = (97.38 -95.2) dBm= 2.18 dBm

Max. Conducted power= 2.18 – 3.33= -1.15 dBm

3. WIFI 2.4G + CW= 0.1555 + 0.00033=0.15583 (mW/ cm<sup>2</sup>)

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”.

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**END OF REPORT**