

FCC RF EXPOSURE REPORT

For

EcoFlow OCEAN Pro Hybrid Inverter

MODEL NUMBER: EF-PCS-24

REPORT NUMBER: 4791889722.1-2

ISSUE DATE: July 30, 2025

FCC ID: 2A2P9-HLKLD1030

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

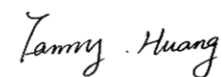
Company Name: EcoFlow Inc.
Address: RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, 518000, China

EUT Description

EUT Name: EcoFlow OCEAN Pro Hybrid Inverter
Model: EF-PCS-24
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

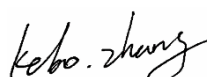
Prepared By:



Fanny Huang

Engineer Project Associate

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	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. 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 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. VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) 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. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155
---------------------------	--

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, 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 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. DESCRIPTION OF EUT

EUT Name	EcoFlow OCEAN Pro Hybrid Inverter
Model	EF-PCS-24

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:	AC 120 V, 60 Hz

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	0.85	3.33	0.00052	1

Note:

1. The calculated distance is 5mm.

2. The power comes from operation description.

EIRP = 99.38 dBuV/m in 3m = (99.38-95.2) dBm= 4.18 dBm

Max. Conducted power= 4.18 – 3.33 = 0.85 dBm

3.WIFI 2.4GHz+ WIFI 5G + CW=

=0.05156+0.05062 + 0.00052=0.1027 (mW/ cm²)

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

For the WIFI module PD, refer to report “4791873944.1-RF-4”

END OF REPORT