



# FCC RF EXPOSURE REPORT

For

# Power Hub 5kVA

### MODEL NUMBER: EF-PK-H05-1

### REPORT NUMBER: 4791445713.1-RF-4

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Prepared for

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

Prepared by

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## **Revision History**

Rev. Issue Date		Revisions	Revised By
V0	October 17, 2024	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
Applicant 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 Hub 5kVA
Model:	EF-PK-H05-1
Brand:	ECOFLOW; EF ECOFLOW
Sample Received Date:	September 19, 2024
Sample ID:	Normal
Sample Status:	7619964
Date of Tested:	September 20, 2024 to October 17, 2024

## APPLICABLE STANDARDS

STANDARD

TEST RESULTS PASS

447498 D04 Interim General RF Exposure Guidance v01

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# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 1 Subpart I, section 1.1307 and KDB 447498 D04 Interim General RF Exposure Guidance v01.

# 3. FACILITIES AND ACCREDITATION

	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)				
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
Certificate	has been registered and fully described in a report filed with ISED.				
Certificate	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. 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.10 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**

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

and f is in GHz, d is the separation distance (cm), and ERP<sub>20cm</sub> 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	5	3.49	8.49	6.34	4.305	20	3060
WIFI2.4G	14.5	3.49	17.99	15.84	38.371	20	3060
WIFI5G	12.5	3.50	16	13.85	24.266	20	3060

Note:

1. The calculated distance is 20 cm.

2. The power comes from operation description.

3. The EUT does not support simultaneous operation.

4. All antennas data have been considered, the calculated value is the worst case.

# END OF REPORT