

# Ningbo EverFlourish Smart Technology Corp., Ltd.

## MPE ASSESSMENT REPORT

**Report Type:**

FCC MPE assessment report

**MODEL:**

EV100D-40W, EV100D-48W,  
DXPAEV040, DXPAEV048

**REPORT NUMBER:**

2412B1800SHA-003

**ISSUE DATE:**

March 4, 2025

**DOCUMENT CONTROL NUMBER:**

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**Applicant:** Ningbo EverFlourish Smart Technology Corp., Ltd.  
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**Manufacturer:** Ningbo EverFlourish Smart Technology Corp., Ltd.  
77 Wuxiang East Road, Yinzhou, Ningbo, Zhejiang, 31511 China

**Factory:** Ningbo Everflourish Electronics Co.,Ltd.  
295 Guanhai New Road, 369 Liansheng Road, zhanqi Town, Yinzhou,  
Ningbo, Zhejiang, China

**FCC ID:** VBA-EFEV100D1

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part1.1307(b)

**PREPARED BY:****REVIEWED BY:**

Project Engineer  
Sky Yang



Reviewer  
Eric Li

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## Revision History

Report No.	Version	Description	Issued Date
2412B1800SHA-003	Rev. 01	Initial issue of report	March 4, 2025

## 1 GENERAL INFORMATION

### 1.1 Description of Equipment Under Test (EUT)

Product name:	Electric Vehicle Supply Equipment
Type/Model:	EV100D-40W, EV100D-48W, DXPAEV040, DXPAEV048
Description of EUT:	The EUT is an electric vehicle supply equipment with WIFI and Bluetooth function. EV100D-40W and DXPAEV040 are same except the model name, EV100D-48W and DXPAEV048 are same except the model name. All models are electrically identical except the maximum output power.
Rating:	EV100D-40W, DXPAEV040: 240VAC, 60Hz, 40A Max, 9.6kW Max EV100D-48W, DXPAEV048: 240VAC, 60Hz, 48A Max, 11.5kW Max
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	A250110-30
Sample received date:	January 10, 2025
Date of test:	January 13, 2025~ January 24, 2025

### 1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20) 7 Channels for 802.11n(HT40)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 IEEE 802.11n-HT40: Up to MCS7
Channel Separation:	5 MHz
Antenna Information:	3.26dBi, PCB Antenna

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps, 2Mbps
Channel Separation:	2MHz

Antenna Information:

3.26dBi, PCB Antenna

### 1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (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

F=frequency in MHz; \*=Plane-wave equivalent power density

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

## 2.2 Assessment Results

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm<sup>2</sup>

P = Power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test reports 2412B1800SHA-001 and 2412B1800SHA-002:

Here R is chosen to be 20cm,

Mode	Frequency Range (MHz)	P		G		R (cm)	S (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
		(dBm)	(mW)	(dBi)	(Numeric)			
Bluetooth	2402 - 2480	5.39	3.46	3.26	2.12	20	0.0015	1
WIFI	2412 - 2462	16.63	46.03	3.26	2.12	20	0.0194	1



## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\*END\*\*\*\*\*