

Ningbo EverFlourish Smart Technology Corp., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

MODEL:

EV100D-40W2J, EV100D-48W2J,
EV100D-40W2T, EV100D-48W2T,
DXPAEV040CP-SAE, DXPAEV048CP-SAE,
DXPAEV040CP-TL, DXPAEV048CP-TL

REPORT NUMBER:

2504B2119SHA-003

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June 24, 2025

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Manufacturer: Ningbo EverFlourish Smart Technology Corp., Ltd.
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Factory: Ningbo Everflourish Electronics Co.,Ltd.
295 Guanhai New Road, 369 Liansheng Road, zhanqi Town, Yinzhou,
Ningbo, Zhejiang, China

FCC ID: VBA-EFEV100D2

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
2504B2119SHA-003	Rev. 01	Initial issue of report	June 24, 2025

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Electric Vehicle Supply Equipment
Type/Model:	EV100D-40W2J, EV100D-48W2J, EV100D-40W2T, EV100D-48W2T, DXPAEV040CP-SAE, DXPAEV048CP-SAE, DXPAEV040CP-TL, DXPAEV048CP-TL
Description of EUT:	The EUT is an electric vehicle charging station with WIFI and Bluetooth function. All models are electrically identical except the output connector and maximum output power. EV100D-40W2J, EV100D-48W2J, DXPAEV040CP-SAE and DXPAEV048CP-SAE are equipped with J1772 output connector, EV100D-40W2T, EV100D-48W2T, DXPAEV040CP-TL and DXPAEV048CP-TL are equipped with NACS output connector.
Rating:	EV100D-40W2J, EV100D-40W2T, DXPAEV040CP-SAE, DXPAEV040CP-TL: 240VAC, 60Hz, 40A Max, 9.6kW Max EV100D-48W2J, EV100D-48W2T, DXPAEV048CP-SAE, DXPAEV048CP-TL: 240VAC, 60Hz, 48A Max, 11.52kW Max
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	A250507-22
Sample received date:	May 7, 2025
Date of test:	May 12, 2025 ~ May 23, 2025

1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20
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)
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7
Channel Separation:	5 MHz
Antenna Information:	2dBi, PCB Antenna

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps
Channel Separation:	2MHz
Antenna Information:	2dBi, 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 ²)	Averaging time (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

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 ≤ 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/cm²

P = Power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test reports 2504B2119SHA-001 and 2504B2119SHA-002:

Here R is chosen to be 20cm,

Mode	Frequency Range (MHz)	P		G		R (cm)	S (mW/cm ²)	Limit (mW/cm ²)
		(dBm)	(mW)	(dBi)	(Numeric)			
Bluetooth	2402 - 2480	5.34	3.420	2	1.585	20	0.0011	1
WIFI	2412 - 2462	16.95	49.545	2	1.585	20	0.0156	1

WIFI and Bluetooth can't transmit simultaneously.

Therefore, the MPE requirement is deemed to be satisfied without test.

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*****