

Ningbo EverFlourish Smart Technology Corp., Ltd.

MPE ASSESSMENT REPORT

Report Type:

IC MPE assessment report

MODEL:

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

REPORT NUMBER:

2504B2119SHA-004

ISSUE DATE:

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

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

IC: 7098A-EFEV100D2

HVIN: EFEV100D40W2J, EFEV100D40W2T, EFEV100D48W2J, EFEV100D48W2T

SUMMARY:

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

RSS-102: Issue 6 (December 2023)

PREPARED BY:

Project Engineer
Sky Yang

REVIEWED BY:

Reviewer
Eric Li

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Revision History

Report No.	Version	Description	Issued Date
2504B2119SHA-004	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
Category of EUT:	Class B
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

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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

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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

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2 MPE Assessment

Test result: Pass

2.1 MPE Test Exclusion Limit

Section 5.3.2: Electric field strength levels, magnetic field strength levels and power density levels (10 MHz to 300 GHz)

According RSS-102 Table 7(RF field strength and power density limits for devices used by the general public)

Frequency range (MHz)	Electric field (V_{RMS}/m)	Magnetic field (A_{RMS}/m)	Power density (W/m^2)	Reference period (minutes)
10 - 20	27.46	0.0728	2	6
20 - 48	$58.07/f^{0.25}$	$0.1540f^{0.25}$	$8.944/f^{0.5}$	6
48 - 300	22.06	0.05852	1.291	6
300 - 6000	$3.142f^{0.3417}$	$0.008335f^{0.3417}$	$0.02619f^{0.6834}$	6
6000 - 15000	61.4	0.163	10	6
15000 - 150000	61.4	0.163	10	$616000/f^{1.2}$
150000 - 300000	$0.158f^{0.5}$	$4.21 \cdot 10^{-4}f^{0.5}$	$6.67 \cdot 10^{-5}f$	$616000/f^{1.2}$

Note: f is frequency in MHz.

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**

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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:

Mode	Frequency Range (MHz)	P		G		R (cm)	S (mW/cm ²)	Limits (mW/cm ²)
		(dBm)	(mW)	(dBi)	(numeric)			
Bluetooth	2402 - 2480	5.34	3.420	2	1.585	20	0.0011	0.5366
WIFI	2412 - 2462	16.95	49.545	2	1.585	20	0.0156	0.5351

Note: 1 mW/cm² from 1.310 Table 1.

WIFI and Bluetooth can't transmit simultaneously.

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

*****END*****