

Ningbo Goneo New Energy Technology Co.,Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

MODEL:

D3U-B40A, D3U-B40B, D3U-B48A, D3U-B48B, D3U-B80A, D3U-B80B

REPORT NUMBER:

2402B0659SHA-003

ISSUE DATE:

June 21, 2024



DOCUMENT CONTROL NUMBER:

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Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

Telephone: 86 21 6127 8200

www.intertek.com

Report no.: 2402B0659SHA-003

Applicant: Ningbo Goneo New Energy Technology Co.,Ltd.

No.258 South Guanfu Road, West Guanhaiwei Industrial Zone, Cixi, Zhejiang,

China

Manufacturer: Ningbo Goneo New Energy Technology Co.,Ltd.

No.258 South Guanfu Road, West Guanhaiwei Industrial Zone, Cixi, Zhejiang,

China

Factory: Sichuan Injet New Energy Co., Ltd.

No.19 Tumenjiang Road, Deyang, Sichuan, China

FCC ID: 2BE45D3UB-2405

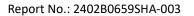
SUMMARY:

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 Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:	
Sky Yang	Zrie. li	
Project Engineer Sky Yang	Reviewer Eric Li	

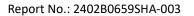
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Revision History

Report No.	Version	Description	Issued Date
2402B0659SHA-003	Rev. 01	Initial issue of report	June 21, 2024





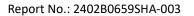
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Draduat name	AC TV Charging Station	
Product name:	AC EV Charging Station	
Type/Model:	D3U-B40A, D3U-B40B, D3U-B48A, D3U-B48B, D3U-B80A, D3U-B80B	
Description of EUT:	The EUT is an electric vehicle AC charging station. The difference between D3U-B40A and D3U-B40B is that D3U-B40A has a display screen while D3U-B40B doesn't, the same difference between D3U-B48A and D3U-B48B, and the same difference between D3U-B80A and D3U-B80B. D3U-B40A, D3U-B48A and D3U-B80A are electrically identical except the rated power, the same difference between D3U-B40B, D3U-B48B and D3U-B80B. The EUT contains two certified wireless modules, the FCC ID is XMR201909EC25AFX and 2AC7Z-ESPC3WROOM, the IC is 10224A-2019EC25AFX and 21098-ESPC3WROOM.	
Rating:	D3U-B40A, D3U-B40B: 208/240VAC, 60Hz, 40A Max D3U-B48A, D3U-B48B: 208/240VAC, 60Hz, 48A Max D3U-B80A, D3U-B80B: 208/240VAC, 60Hz, 80A Max	
Category of EUT:	Class B	
EUT type:	☐ Table top ☐ Floor standing	
Software Version:	-	
Hardware Version:	-	
Serial numbers:	A240606-57	
Sample received date:	June 7, 2024	
Date of test:	June 10, 2024 ~ June 13, 2024	

1.2 Technical Specification

Frequency Range:	13.56 MHz ~ 13.56 MHz	
Modulation:	ASK	
Antenna gain:	PCB antenna	

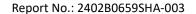




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai	
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 L0139
	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

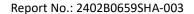
Mobile device exposure for standalone operations:

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/cm2)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Note: Limit for 13.56MHz is 60.77 V/m

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/cm²

P = Power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2402B0659SHA-002:

61.0dBuV/m@3m, @20cm=@3m+40log(3/0.2)=108.04dBuV/m=0.252V/m<60.77.

The power for WIFI/Bluetooth module refers to certificate of FCC ID: 2AC7Z-ESPC3WROOM The power for LTE module refers to certificate of FCC ID: XMR201909EC25AFX

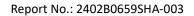
The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent the worst case in terms of the exposure levels.

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G R Frequency Range Limits Module (numeric) (mW/cm2) (mW/cm2) (MHz) (dBm) (mW) (dBi) (cm) 0.003 1 Bluetooth LE 8.52 7.11 3.26 2.12 20 2AC7Z-ESPC3WROOM **WIFI 2.4G** 57.02 3.26 2.12 20 0.024 17.56 1 WCDMA Band II 316.23 2.512 20 0.158 1 25 4 WCDMA Band IV 25 316.23 4 2.512 20 0.158 1 2.512 20 WCDMA Band V 25 316.23 4 0.158 0.549 LTE Band 2 25 316.23 4 2.512 20 0.158 1 2.512 LTE Band 4 25 316.23 4 20 0.158 1 XMR202008EC LTE Band 5 2.512 20 25 316.23 4 0.158 0.549 25AFXD 2.512 LTE Band 12 25 316.23 4 20 0.158 0.466 LTE Band 13 316.23 4 2.512 20 0.158 0.518 25 LTE Band 14 25 316.23 4 2.512 20 0.158 0.525 LTE Band 66 4 2.512 25 316.23 20 0.158 1 LTE Band 71 316.23 4 2.512 20 0.442 25 0.158

Note: 1 mW/cm2 from 1.310 Table 1.

RFID and all modules can transmit simultaneously, so the maximum rate of MPE is, 0.252/60.77+0.024/1+0.158/0.442=0.386 < 1.0.





Definition below must be outlined in the User Manual:

Appendix I

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.