

# 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:**

TTRFFCCMPE-01\_V1 © 2018 Intertek



**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:**



Project Engineer  
Sky Yang

Reviewer  
Eric Li

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

## 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)

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:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> 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

**TEST REPORT**

**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/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

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 ≤ 1.0**

**TEST REPORT**

**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 report 2402B0659SHA-002:

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

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.

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

Module	Frequency Range	P		G		R	S	Limits
	(MHz)	(dBm)	(mW)	(dBi)	(numeric)	(cm)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
2AC7Z-ESPC3WROOM	Bluetooth LE	8.52	7.11	3.26	2.12	20	0.003	1
	WIFI 2.4G	17.56	57.02	3.26	2.12	20	0.024	1
XMR202008EC25AFXD	WCDMA Band II	25	316.23	4	2.512	20	0.158	1
	WCDMA Band IV	25	316.23	4	2.512	20	0.158	1
	WCDMA Band V	25	316.23	4	2.512	20	0.158	0.549
	LTE Band 2	25	316.23	4	2.512	20	0.158	1
	LTE Band 4	25	316.23	4	2.512	20	0.158	1
	LTE Band 5	25	316.23	4	2.512	20	0.158	0.549
	LTE Band 12	25	316.23	4	2.512	20	0.158	0.466
	LTE Band 13	25	316.23	4	2.512	20	0.158	0.518
	LTE Band 14	25	316.23	4	2.512	20	0.158	0.525
	LTE Band 66	25	316.23	4	2.512	20	0.158	1
LTE Band 71	25	316.23	4	2.512	20	0.158	0.442	

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1.

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

**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\*\*\*\*\*