

Sichuan Injet New Energy Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCCC MPE assessment report

Model:

iM3C-19K2A, iM3C-15K6A, iM3C-11K5A, iM3C-09K6A

REPORT NUMBER:

2309A1183SHA-003

ISSUE DATE:

November 1, 2023



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.: 2309A1183SHA-003

Applicant: Sichuan Injet New Energy Co., Ltd.

The Northeast Corner of Minshan Road and Tumenjiang Road, Economic

and Technological Development Zone, Deyang, Sichuan, China

Manufacturer: Sichuan Injet New Energy Co., Ltd.

The Northeast Corner of Minshan Road and Tumenjiang Road, Economic

and Technological Development Zone, Deyang, Sichuan, China

Factory: Sichuan Injet New Energy Co., Ltd.

The Northeast Corner of Minshan Road and Tumenjiang Road, Economic

and Technological Development Zone, Deyang, Sichuan, China

FCC ID: 2AZGWIM3C-2309

SUMMARY:

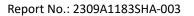
The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

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

DEVIEWED DV

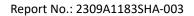
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Revision History

Report No.	Version	Description	Issued Date
2309A1183SHA-003	Rev. 01	Initial issue of report	November 1, 2023





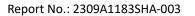
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	AC EV Charger				
Type/Model:	iM3C-19K2A, iM3C-15K6A, iM3C-11K5A, iM3C-09K6A				
Description of EUT:	The EUT is an electric vehicle DC charger. It contains a certified WIFI mand LTE module. The LTE module FCC ID is XMR201909EC25AFX, the Windows are electric identical except the rated power.				
Rating:	iM3C-19K2A: 240VAC, 60Hz, 80A Max iM3C-15K6A: 240VAC, 60Hz, 65A Max iM3C-11K5A: 240VAC, 60Hz, 48A Max iM3C-09K6A: 240VAC, 60Hz, 40A Max				
EUT type:	☐ Table top ☐ Floor standing				
Software Version:	-				
Hardware Version:	-				
Sample received date:	September 11, 2023				
Date of test:	September 12, 2023 ~ September 27, 2023				

1.2 Technical Specification

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

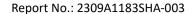




1.3 Description of Test Facility

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

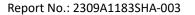
Mobile device exposure for standalone operations:

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	1	1	f/1500	30
1500-100,000	1	1	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





TEST REPORT

2.2 Assessment Results

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

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

Where S = power density in mW/cm²

P = Radiated transmit power in mW

R = distance (cm)

As we can see from the test report 2309A1183SHA-002: 60.6dBuV/m@3m, @20cm=@3m+40log(3/0.2)=107.64dBuV/m=0.241V/m<60.77.

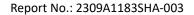
The power for WIFI module refers to certificate of FCC ID: 2AC7Z-ESPC3WROOM The power for LTE module refers to certificate of FCC ID: XMR201909EC25AFX

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

Frequency Range	EIF	RP	Antenna Gain	R	S	Limits
(MHz)	(dBm)	(mW)	(dBi)	(cm)	(mW/cm2)	(mW/cm2)
Bluetooth LE	11.78	15.07	3.26	20	0.003	1
WIFI 2.4G	20.82	120.78	3.26	20	0.024	1
WCDMA Band II	29	794.33	4	20	0.158	1
WCDMA Band IV	29	794.33	4	20	0.158	1
WCDMA Band V	29	794.33	4	20	0.158	0.55
LTE Band 2	29	794.33	4	20	0.158	1
LTE Band 4	29	794.33	4	20	0.158	1
LTE Band 5	29	794.33	4	20	0.158	0.55
LTE Band 12	29	794.33	4	20	0.158	0.47
LTE Band 13	29	794.33	4	20	0.158	0.52
LTE Band 14	29	794.33	4	20	0.158	0.53
LTE Band66	29	794.33	4	20	0.158	1
LTE Band 71	29	794.33	4	20	0.158	0.45

Note: 1 mW/cm2 from 1.310 Table 1.

RFID, WIFI and LTE can transmit simultaneously, so the maximum rate of MPE is, 0.241/60.77+0.024/1+0.158/0.45=0.379 < 1.0.





Appendix I

To satisfy FCC RI	exposure requirements,	a separation distance	of 20 cm or more shoul	d 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.

Definition below must be outlined in the User Manual: