

XIAMEN GALAXY CAMPHOL TECHNOLOGY CO., LTD.

MPE ASSESSMENT REPORT

Report Type:
FCCC MPE assessment report

MODEL:
IOCAH29-32CRW4, IOCAH29-32ACRW4, IOCAH29-32BCRW4
IOCAH29-40CRW4, IOCAH29-40ACRW4, IOCAH29-40BCRW4

REPORT NUMBER:
231101072SHA-003

ISSUE DATE:
February 1, 2024

DOCUMENT CONTROL NUMBER:
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Applicant: XIAMEN GALAXY CAMPHOL TECHNOLOGY CO., LTD.
UNIT 04, 14TH FLOOR BUILDING A1, SOFTWARE PARK 3, JIMEI DISTRICT,
XIAMEN, FUJIAN, CHINA

Manufacturer: XIAMEN GALAXY CAMPHOL TECHNOLOGY CO., LTD.
No.101 3 FLOOR, HULI INDUSTRIAL ESTATE, MEIXI ROAD, TONG'AN
DISTRICT, XIAMEN, FUJIAN, 361000, CHINA

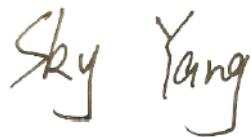
Factory: XIAMEN IPRT TECHNOLOGY CO., LTD.
No.101 3 FLOOR, HULI INDUSTRIAL ESTATE, MEIXI ROAD, TONG'AN
DISTRICT, XIAMEN, FUJIAN, 361000, CHINA

FCC ID: 2BDZP-IOCAH29

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:

Project Engineer
Sky Yang**REVIEWED BY:**

Reviewer
Eric Li

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
231101072SHA-003	Rev. 01	Initial issue of report	February 1, 2024

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	Electric Vehicle Charger
Type/Model:	IOCAH29-32CRW4, IOCAH29-32ACRW4, IOCAH29-32BCRW4 IOCAH29-40CRW4, IOCAH29-40ACRW4, IOCAH29-40BCRW4
Description of EUT:	The EUT is an electric vehicle AC charger. All models are electric identical except the rated power and input cord. We test IOCAH29-40BCRW4 as representative and list the result in this report.
Rating:	IOCAH29-32CRW4, IOCAH29-32ACRW4, IOCAH29-32BCRW4: 200-240VAC, 50/60Hz, 32A Max IOCAH29-40CRW4, IOCAH29-40ACRW4, IOCAH29-40BCRW4: 200-240VAC, 50/60Hz, 40A Max
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	-
Hardware Version:	-
Sample received date:	December 15, 2023
Date of test:	December 18, 2023 ~ December 29, 2023

1.2 Technical Specification

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

TEST REPORT**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 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

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

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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 231101072SHA-002:

$$62.2 \text{ dBuV/m} @ 3\text{m}, @ 20\text{cm} = @ 3\text{m} + 40\log(3/0.2) = 109.24 \text{ dBuV/m} = 0.29 \text{ V/m} < 60.77.$$

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 (MHz)	EIRP		Antenna Gain (dBi)	R (cm)	S (mW/cm ²)	Limits (mW/cm ²)
WCDMA Band II	30	1000	5	20	0.199	1
WCDMA Band IV	30	1000	5	20	0.199	1
WCDMA Band V	30	1000	5	20	0.199	0.55
LTE Band 2	30	1000	5	20	0.199	1
LTE Band 4	30	1000	5	20	0.199	1
LTE Band 5	30	1000	5	20	0.199	0.55
LTE Band 12	30	1000	5	20	0.199	0.47
LTE Band 13	30	1000	5	20	0.199	0.52
LTE Band 14	30	1000	5	20	0.199	0.53
LTE Band 66	30	1000	5	20	0.199	1
LTE Band 71	30	1000	5	20	0.199	0.45

Note: 1 mW/cm² from 1.310 Table 1.

RFID and LTE can transmit simultaneously, so the maximum rate of MPE is,
 $0.29/60.77 + 0.199/0.45 = 0.447 < 1.0$.

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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*****