

RF TEST REPORT

Product Name: EV DC Charger

Model Name: L3D-DC240XYZ 240kW, L3D-DC60XYZ 60kW, L3D-DC80XYZ 80kW, L3D-DC120XYZ 120kW, L3D-DC160XYZ 160kW, L3D-DC180XYZ 180kW

FCC ID: 2BBSV-L240W

Issued For : Xiamen LinkPower Tech. Co., Ltd

Building #3, No.29 Xinle Road, Haicang District, Xiamen,

361026, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,

No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT24G069HA02

Sample Received Date: Jul. 10, 2024

Date of Test: Jul. 10, 2024 – Sep. 04, 2024

Date of Issue: Sep. 04, 2024

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TEST REPORT CERTIFICATION

Applicant: Xiamen LinkPower Tech. Co., Ltd

Address: Building #3, No.29 Xinle Road, Haicang District, Xiamen, 361026,

China

Manufacture: Xiamen LinkPower Tech. Co., Ltd

Address: Building #3, No.29 Xinle Road, Haicang District, Xiamen, 361026,

China

Product Name: EV DC Charger

Trademark: LinkPower

L3D-DC240XYZ 240kW, L3D-DC60XYZ 60kW, L3D-DC80XYZ

Model Name: 80kW, L3D-DC120XYZ 120kW, L3D-DC160XYZ 160kW, L3D-

DC180XYZ 180kW

Sample Status: Normal

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS			

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Technical Director



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Revision History

Rev.	Issue Date	Revisions
00	Sep. 04, 2024	Initial Issue

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	EV DC Charger			
Trademark:	LinkPower			
Model Name:	L3D-DC240XYZ 240kW			
Series Model:	L3D-DC60XYZ 60kW, L3D-DC80XYZ 80kW, L3D-DC120XYZ 120kW, L3D-DC160XYZ 160kW, L3D-DC180XYZ 180kW			
Model Difference:	software and cr components wh contact, power L3D-DC60 may identicle expect L3D-DC60 and and160 use 40	designed in the same electrical structure, ritical components, except different rating of nich may include main circuit breaker, main AC module and different enclosure. /be wall mounted or floor mounted, but are t enclosure. 180 use 30kW power module, L3D-DC80 kW power module, d 240 use 30kW or 40KW power module.		
Frequency Bands:	2.4G WIFI	802.11b/g/n(20MHz): 2412~2462MHz		
	RFID	13.56MHz		
Rating:	Input Voltage: 480±10%Vac Frequency: 60Hz Output Voltage: DC 200-1000V Max Output Current: 200A for L3D-DC60, 266A for L3D-DC80, 400A for L3D-DC120, 532A for L3D-DC160, 600A for L3D-DC180, 700A for L3D-DC240.			
Hardware Version:	V1.0			
Software Version:	V13			

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.			
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China			
Accreditation Certificate	A2LA Certificate No.: 6727.01			
	FCC Registration No.: 746540			
	CAB ID: CN0136			

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2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density			
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)			
Limits for Occupational / controlled Exposures						
300 - 1500			F/300			
1500 – 100000			5.0			
Limits for General population / Uncontrolled Exposure						
300 - 1500			F/1500			
1500 – 100000			1.0			

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

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2.5 TEST RESULT

Turn up Result

Mode	Turn up Power		
2.4G WIFI-802.11b	16±1dBm		
2.4G WIFI-802.11g	15±1dBm		
2.4G WIFI-802.11n(HT20)	13.5±1dBm		
13.56M	-30±1dBm		

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	Result
2.4G WIFI	2437	17.00	50.12	0.21	1.05	0.010	1	0.010	Pass
RFID	13.56	-29.00	0.0013	0	1.00	0.000003	0.98	0.0000003	Pass

The max MPE of simultaneous transmission:

WIFI(0.010)+RFID(0.0000003)= 0.0100003<1

Note: The Maximum Power Density is less than the limit, complies with the exemption requirements.

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APPENDIX I - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached L3D-DC240XYZ 240kW_EUT Photos.

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