



TEST REPORT

Reference No...... : WTZ21F12147454W002
FCC ID : 2AYCY-LM-60-12-U1B2
Applicant..... : ZHUHAI LITECH TECHNOLOGY CO., LTD
Address..... : 15th Build, No.3, Pingdong 6th Road, Nanping Technical Industrial Park Zhuhai China 519060
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : LED Driver
Model No...... : LM-60-12-U1B2, LM-60-12-U2B2, LM-60-24-U1B2, LM-60-24-U2B2, LM-100-24-U1B2, LM-100-24-U2B2
Test specification..... : FCC CFR47 Part 15 Subpart C (Section 15.247): 2020
Date of Receipt sample : 2022-01-04
Date of Test : 2022-01-04 to 2022-01-13
Date of Issue..... : 2022-04-02
Test Report Form No. : WEW-15247A-01A
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

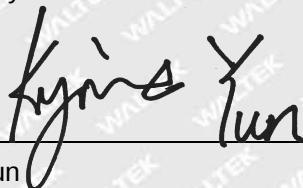
Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398

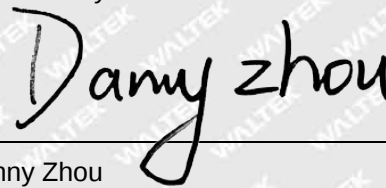
Fax:+86-757-23811381

E-mail:info@waltek.com.cn

Tested by:


Kyrie Yun

Approved by:


Danny Zhou



1 Revision History

Test Report No.	Date of Issue	Description	Status
WTZ21F12147454W002	2022-04-02	Original	Valid

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3 General Information

3.1 General Description of E.U.T

Product Name	LED Driver
Model No.	LM-60-12-U1B2, LM-60-12-U2B2, LM-60-24-U1B2, LM-60-24-U2B2, LM-100-24-U1B2, LM-100-24-U2B2
Model Description	All models are using the same RF module and electric circuit, but the two series are with different PCB layout. The models with prefix 'LM-60' are identical except for the appearance. The models with prefix 'LM-100' are identical except for the appearance. Therefore the RF exposure evaluation was performed on model LM-60-12-U1B2.
Rated Voltage.....	AC 120-277V, 50/60Hz
Battery Capacity	---
Power Adapter	---

3.2 Technical Characteristics of EUT

Bluetooth Version	V5.0(BLE mode)
Frequency Range	2402-2480MHz
RF Output Power	-6.929dBm (Conducted)
Modulation	GFSK
Data Rate	1Mbps
Quantity of Channels	40
Channel Separation.....	2MHz
Type of Antenna	PCB Printed Antenna
Antenna Gain	2dBi

3.3 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.



4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

4.1 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz; * = Plane-wave equivalents power density



4.2 MPE Calculation Method

$$S = (30 \cdot P \cdot G) / (377 \cdot R^2)$$

S = power density (in appropriate units, e.g., mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

4.3 MPE Calculation Result

Prediction distance (mm)	Prediction frequency (MHz)	Antenna Gain (dBi)	Numeric gain	Maximum Tune-up output power (dBm)	Maximum peak output power (mW)	PD (mW/cm ²)	Limit (mW/cm ²)
>200	2480	2	1.58	-6.929	0.203	0.0000640	1.0

Result: Pass

=====End of Report=====

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