

TEST REPORT

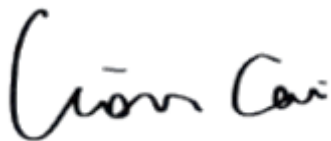
Application No.: BTEK240509015AE
Applicant: Shenzhen Litime Technology Co., Ltd
Address of Applicant: Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Manufacturer: Shenzhen Litime Technology Co., Ltd
Address of Manufacturer: Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: Litime 38.4V 50Ah Smart TM LiFePO4 Battery
Test Model.: 38.4V 50 Ah Smart TM
Adding Model(s): 38.4V 50Ah, 38.4V 50Ah TM, 38.4V 50Ah Smart, 38.4V 50Ah Plus, 38.4 50Ah Pro, 38.4V 50Ah Max, 38.4V 50Ah Mini, 38.4V 50Ah GC , 38.4V 50Ah GC Smart, 38.4V 50Ah Group 24, 38.4V 50Ah Group 31, 38.4V 50Ah Group 22, 38.4V 50Ah LTCP, 38.4V 50Ah H190, 38.4V 50Ah BT, 38.4V 50Ah Self-Heating

Trade Mark: Litime
FCC ID: 2BDSV-3650
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1091
Date of Receipt: 2024-06-11
Date of Test: 2024-06-13 to 2024-06-19
Date of Issue: 2024-06-20

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Lion Cai/ Approved & Authorized
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
V0		2024-06-20		Original

Authorized for issue by			
		<i>Zora Huang</i>	
		Zora Huang/Project Engineer	
		<i>June Li</i>	
		June Li/Reviewer	

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 compiler and approver.



2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information	4
3.1 Details of E.U.T.	4
3.2 Description of Support Units	4
3.3 Test Location.....	4
3.4 Deviation from Standards.....	4
3.5 Abnormalities from Standard Conditions	4
4 Test Requirement	5
4.1 Assessment Result.....	5



General Information

3.1 Details of E.U.T.

Power supply:	DC 38.4V 50A
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 BLE
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.2dBi
Sample No.:	BTEK240509015AE-01

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Model No.: 38.4V 50 Ah Smart TM,38.4V 50Ah,38.4V 50Ah TM,38.4V 50Ah Smart,38.4V 50Ah Plus,38.4V 50Ah Pro,38.4V 50Ah Max,38.4V 50Ah Mini,38.4V 50Ah GC ,38.4V 50Ah GC Smart,38.4V 50Ah Group 24,38.4V 50Ah Group 31,38.4V 50Ah Group 22,38.4V 50Ah LTCP,38.4V 50Ah H190,38.4V 50Ah BT,38.4V 50Ah Self-Heating

Only the model 38.4V 50 Ah Smart TM was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103

Tel:0755-2334 4200 Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

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.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

f = frequency in MHz

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

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 center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1 Assessment Result

Passed Not Applicable

Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2440	2.33	2.50	0.0006	1.0000	Pass

- End of the Report -

