



## Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK231127004AE002

Page: 1 of 5

FCC ID: 2BDSV12V100

# TEST REPORT

**Application No.:** BTEK231127004AE  
**Applicant:** Shenzhen Litime Technology Co., Ltd  
**Address of Applicant:** Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street, Shenzhen, China  
**Manufacturer:** Shenzhen Litime Technology Co., Ltd  
**Address of Manufacturer:** Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street, Shenzhen, China  
**Factory:** Shenzhen Litime Technology Co., Ltd  
**Address of Factory:** Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street, Shenzhen, China

**Equipment Under Test (EUT):**  
**EUT Name:** Litime 12.8V 100Ah Group24 LiFeP04 Lithium Battery  
**Model No.:** 12.8V 100Ah Group 24, 12.8V 100Ah H190, 12.8V 100Ah, 12.8V 100Ah Mini, 12.8V 100Ah TM, 12.8V 100Ah Self-Heating, 12.8V 100Ah Smart, 12.8V 100Ah Plus, 12.8V 100Ah Pro, 12.8V 100Ah Max  
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:** NA  
**Standard(s) :** 47 CFR Part 2 Subpart J Section 2.1091  
**Date of Receipt:** 2023-11-27  
**Date of Test:** 2023-11-27 to 2023-12-18  
**Date of Issue:** 2023-12-18


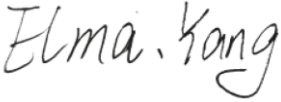
<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Damon Su  
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-18		Original

Authorized for issue by:			
			
	<hr/>		
	Carl Yang /Project Engineer		
			
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	Elma Yang /Reviewer		



## 2 Contents

	Page
<b>1 Cover Page</b> .....	<b>1</b>
<b>2 Contents</b> .....	<b>3</b>
<b>3 General Information</b> .....	<b>4</b>
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
<b>4 Test Requirement</b> .....	<b>5</b>
4.1 Assessment Result.....	5



### 3 General Information

#### 3.1 Details of E.U.T.

Power supply:	DC 12.8V, 100A Max, 1280W
Test Voltage:	NA
Cable(s):	/
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	Bluetooth 5.3
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.68dBi

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.: 12.8V 100Ah Group 24, 12.8V 100Ah H190, 12.8V 100Ah, 12.8V 100AhMini  
12.8V 100Ah TM, 12.8V 100Ah Self-Heating, 12.8V 100Ah Smart, 12.8V100Ah Plus, 12.8V 100Ah Pro,  
12.8V 100Ah Max

Only the model 12.8V 100Ah Group 24 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.and product size

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.			

#### 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 518104

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

### Test Requirement

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range (MHz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

### EVALUATION METHOD

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

Where

**Pd** = power density in mW/cm<sup>2</sup>, **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

### 4.1 Assessment Result

Passed  Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2480	BLE	-1.82	-1	0.0009	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.

- End of the Report -

