



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK240108003AE002

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FCC ID: 2BDSV-512V100

TEST REPORT

Application No.: BTEK240108003AE
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 51.2V 100Ah GC Smart LiFe P04 Battery
Model No.: 51.2V 100Ah GC Smart, 51.2V 100Ah, 51.2V 100Ah GC, 51.2V 100Ah GC2, 51.2V 100Ah Smart, 51.2V 100Ah Group24, 51.2V 100Ah H190, 51.2V 100Ah Mini, 51.2V 100Ah Max, 51.2V 100Ah Self-Heating, 51.2V 100Ah Plus, 51.2V 100Ah LOW-TEMP
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: 2024-01-08
Date of Test: 2024-01-08 to 2024-01-23
Date of Issue: 2024-01-25

Test Result:	Pass*
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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		2024-01-25		Original

Authorized for issue by:				
		Elma. Yang		
		Elma yang /Project Engineer		
		Carl. Yang		
		Carl Yang /Reviewer		



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General Information

3.1 Details of E.U.T.

Power supply:	Operating Voltage: 51.2V Charging Voltage: 57.6±0.8V Capacity: 100Ah
Test Voltage:	NA
Cable(s):	/
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	Bluetooth 5.0
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.2 dBi
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.	

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 Gangtou 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 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

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW, G = gain of antenna in linear scale;

P_i = 3.1416, R = distance between observation point and center of the radiator in cm

4.1Assessment Result

☒ Passed ☐ Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2402	BLE	-0.27	0	0.0003	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.

- End of the Report -

