

TEST REPORT

Application No.:

BTEK240313007AE

Applicant:

Shenzhen Ampere Time Digital Energy Technology Co., Ltd.

Address of Applicant:

1908B-1,Bd 2,Jingji Yujing Times Bd, Longcheng St Longgang Dt, Shenzhen

Manufacturer:

Shenzhen Ampere Time Digital Energy Technology Co., Ltd.

Address of Manufacturer:

1908B-1,Bd 2,Jingji Yujing Times Bd, Longcheng St Longgang Dt, Shenzhen

Equipment Under Test (EUT):**EUT Name:** Starrysea 12.8V 280Ah LiFePO4 Battery**Test Model.:** 12.8V 280Ah**Adding Model(s):**

12.8V 280Ah Max, 12.8V 280Ah Plus, 12.8V 280Ah Mini, 12.8V 280Ah Smart, 12.8V 280Ah LTCP, 12.8V 280Ah TM, 12.8V 280Ah Self-Heating, 12.8V 280Ah Pro, 12.8V 280Ah H190, 12.8V 280Ah Group24

Trade Mark:

Starrysea

FCC ID:

2BFF9-12280

Standard(s) :

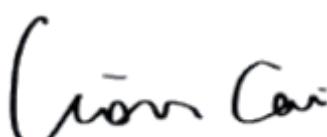
47 CFR Part 2 Subpart J Section 2.1093

447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2024-06-28**Date of Test:** 2024-06-28 to 2024-07-08**Date of Issue:** 2024-07-09**Test Result:**

Pass*

* In the configuration tested, the EUT complied with the standards specified above.



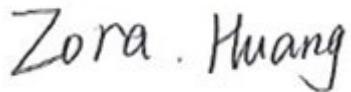
Lion Cai/ Approved & Authorized
EMC Laboratory Manager



Revision Record

Version	Chapter	Date	Modifier	Remark
V0		2024-07-09		Original

Authorized for issue by



Zora Huang/Project Engineer



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.



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General Information

3.1 Details of E.U.T.

Power supply:	12.8V 280Ah
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.:	BTEK240313007AE-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 Gangtou 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: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

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	2.38	2.50	0.0005	1.0000	Pass

- End of the Report -

