

Report No.: BTEK240509014AE002

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TEST REPORT

Test Result:	Pass*			
Date of Issue:	2024-06-19			
Date of Test:	2024-05-24 to 2024-06-18			
Date of Receipt:	2024-05-24			
	447498 D01 General RF Exposure Guidance v06			
Standard(s) :	47 CFR Part 2 Subpart J Section 2.1091			
FCC ID:	2BE5H-12V100			
Trade Mark:	Redodo			
Adding Model(s):	12.8V100Ah Plus, 12.8V100Ah Mini, 12.8V100Ah H190, 12.8V100Ah LTCP, 12.8V100Ah TM, 12.8V100Ah Self-Heating, 12.8V100Ah Pro, 12.8V100Ah Smart, 12.8V 100Ah Max,12.8V 100Ah Group 31, 12.8V 100Ah Group 22NF, 12.8V 100Ah BT, 12.8V 100Ah Self-Heating, 12.8V 100Ah Smart TM, 12.8V 100Ah Smart Group 31, 12.8V 100Ah Smart OM			
Test Model.:	12.8V 100Ah			
EUT Name:	Redodo 12.8V 100Ah LiFePO4 Battery			
Equipment Under Test (EU	Г):			
Address of Manufacturer:	16B,Block B,Building 1,Haoting Jixiangli Huanggekeng Community, Longcheng Street Longgang District,Shenzhen ,China			
Manufacturer:	Shenzhen Maicheng Technology Innovation Co., Ltd.			
Address of Applicant:	16B,Block B,Building 1,Haoting Jixiangli Huanggekeng Community, Longcheng Street Longgang District,Shenzhen ,China			
Applicant:	Shenzhen Maicheng Technology Innovation Co., Ltd.			
Application No.:	BTEK240509014AE			

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

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Lion Cai/ Approved & Authorized EMC Laboratory Manager

ShenZhen BANTEK Testing Co.,Ltd.Add : A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing StreetBao'an District, Shenzhen, Guangdong, China 518104Tel : +(86)755-2334 4200E-mail : Service@btek-lab.comWeb : www.btek-lab.com





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Revision Record				
Version	Chapter	Date	Modifier	Remark
V0		2024-06-19		Original

Authorized for issue by		
BTEK	Zora Huang	
	Zora Huang/Project Engineer	
0	June Li	
	June Li/Reviewer	0.0

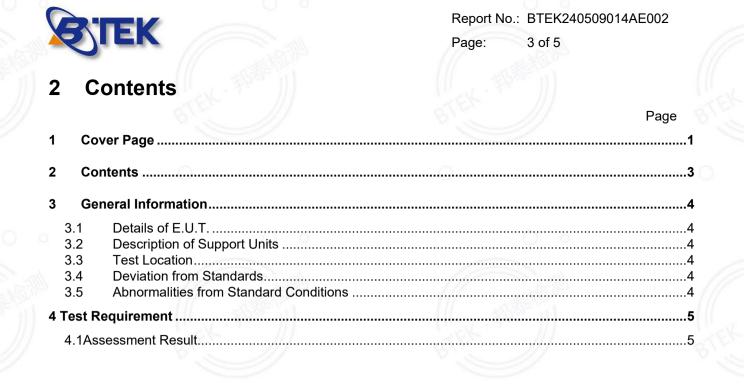
Remarks:

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:	DC 12.8V 100A
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.:	BTEK240509014AE-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.: 12.8V 50Ah Smart TM,12.8V 50Ah,12.8V 50Ah TM,12.8V 50Ah Plus,12.8V 50Ah Pro,12.8V 50Ah Smart,12.8V 50Ah Mini, 12.8V 50Ah Max,12.8V 50Ah LTCP,12.8V 50Ah H190,12.8V 50Ah Group 24,12.8V 50Ah Group 31,12.8V 50Ah Group 22NF, 12.8V 50Ah Smart Group 31,12.8V 50Ah GC Smart

Only the model 12.8V 50Ah Smart TMI 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.
1			1

3.3 Test Location

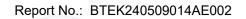
All tests were performed at: Shenzhen BANTEK Testing Co., Ltd., A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103 Tel:0755-2334 4200 Fax: 0755-2334 4200 FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

3.4 Deviation from Standards None

3.5 Abnormalities from Standard Conditions None









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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	n Permissible Exposu	re (MPE))	
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Limits for Occu	pational/Controlled Ex	xposures	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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	List 1		f/300	6
1500–100,000	8	8	5	6
(B) Limits for Gene	ral Population/Uncon	trolled 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	0	0	1.0	30

f = frequency in MHz

Friis transmission formula: Pd = (Pout*G)/(4*pi*r²)

Where

Pd = power density in mW/cm^2 , **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 id 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.

4.1Assessment Result

🛛 Passed

Not Applicable

1	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
	2402	2.23	2.50	0.0006	1.0000	Pass

Note: 1. The exposure evaluation safety distance is 20mm. 2.Only show the worst case in the test report.

- End of the Report -



