

FCC RF EXPOSURE REPORT

For

Meter Adapter Controller

MODEL NUMBER for FCC: MAC10, MACyyy (“yyy” representative variable, “y”=A-Z, 0-9, symbol “-” or blank; for market purpose only, no technical difference.)

MODEL NUMBER for ISED: MAC10

REPORT NUMBER: 4791706213-1-RF-3

ISSUE DATE: April 9, 2025

FCC ID: 2BCMR-MAC10

Prepared for

**FranklinWH Energy Storage Inc.
8 The Green, Ste A, Dover, DE 19901**

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 9, 2025	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: FranklinWH Energy Storage Inc.
Address: 8 The Green, Ste A, Dover, DE 19901

Manufacturer Information

Company Name: FranklinWH Technologies Co., Ltd.?
Address: Room 301, Building 5A Skyworth Innovation Park, No.8 Tangtou
1st Road, Tangtou community Shiyan sub-district, Baoan District,
Shenzhen, Guangdong, China

EUT Information

EUT Name: Meter Adapter Controller
Model for FCC: MAC10, MACyyy ("yyy" representative variable, "y"=A-Z, 0-9,
symbol "-" or blank; for market purpose only, no technical
difference.)
Model for ISCED: MAC10
Sample Received Date: March 3, 2025
Sample Status: Normal
Sample ID: 8233332
Date of Tested: March 4, 2025 to April 9, 2025

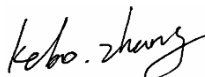
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS
KDB447498 D01 V06	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p>
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, Zhihui City Phase I, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

For single RF source:

Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
BLE	4.0	2.1	0.00081	1
BT	5.0	2.1	0.00102	1
WIFI2.4G	18.0	4.5	0.03538	1
WIFI5G	14.0	5.3	0.01693	1
LTE	25	4.0	0.158	1

For Simultaneous Operations Worst Case:

Worst Mode				
Maximum 2.4G WiFi Power Density/ Limit(mW/cm ²)	Maximum LTE Power Density/ Limit(mW/cm ²)	Σ (Power Density /Limit(mW/cm ²)) of 2.4G WiFi+LTE	Limit	Test Result
0.03538	0.158	0.193	1.0	Complies
2.4G WiFi MPE/1+ LTE MPE/1 <1.0				

Worst Mode				
Maximum 5G WiFi Power Density/ Limit(mW/cm ²)	Maximum LTE Power Density/ Limit(mW/cm ²)	Σ (Power Density /Limit(mW/cm ²)) of 5G WiFi+LTE	Limit	Test Result
0.01693	0.158	0.175	1.0	Complies
5G WiFi MPE/1+ LTE MPE/1 <1.0				

Note:

1. The calculated distance is 20 cm.
3. The WIFI&BT power comes from OD.
4. Only LTE&2.4GWiFi and LTE& 5G WiFi can transmit simultaneously. (declared by client)

END OF REPORT