

RF Exposure Evaluation
For
Shenzhen Yunji New Energy Technology Co., Ltd
Portable power station
Test Model: BP2000 PRO

Prepared for : Shenzhen Yunji New Energy Technology Co., Ltd
Address : A2 3F BUILDING ENET NEW INDUSTRIAL PARK DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA,
SHENZHEN, GUANGDONG, CHINA

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
Address : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou,
Guangdong, China
Tel : (+86) 020-39166689
Fax : (+86) 020-39166619
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : September 11, 2025
Number of tested samples : 2
Sample number : C09105004-1, C09105004-2
Serial number : Prototype
Date of Test : September 11, 2025 ~ September 29, 2025
Date of Report : September 30, 2025

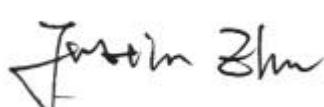
RF Exposure Evaluation	
Report Reference No.	LCSC09105004EB
Date of Issue	September 30, 2025
Testing Laboratory Name	Guangzhou LCS Compliance Testing Laboratory Ltd.
Address	No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	Shenzhen Yunji New Energy Technology Co., Ltd
Address	A2 3F BUILDING ENET NEW INDUSTRIAL PARK DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Test Specification	
Standard	FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091
Test Report Form No	TRF-4-E-214 A/0
TRF Originator	Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF	Dated 2011-03
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EUT Description	Portable power station
Trade Mark	N/A
Test Model	BP2000 PRO
Ratings	Please Refer to Page 6
Result	Pass

Compiled by:



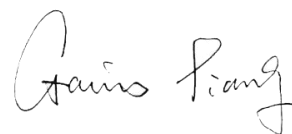
Lifeng Le/ Administrator

Supervised by:



Justin Zhu/ Technique principal

Approved by:



Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : LCSC09105004EB	<u>September 30, 2025</u> Date of issue
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EUT.....	: Portable power station
Test Model.....	: BP2000 PRO
Applicant.....	: Shenzhen Yunji New Energy Technology Co., Ltd
Address.....	: A2 3F BUILDING ENET NEW INDUSTRIAL PARK DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Yunji New Energy Technology Co., Ltd
Address.....	: A2 3F BUILDING ENET NEW INDUSTRIAL PARK DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Telephone.....	: /
Fax.....	: /
Factory.....	: Huizhou Yunji New Energy Technology Co., LTD
Address.....	: Floor 4, Building 7, Huiyang hengang technology industry park Yangnacun Area, Danshui Street, huiyang district, Huizhou City
Telephone.....	: /
Fax.....	: /

Test Result	Pass
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	September 30, 2025	Initial Issue	---

TABLE OF CONTENTS

Description	Page
1. PRODUCT INFORMATION.....	6
2. EVALUATION METHOD.....	7
3. LIMIT.....	7
4. MPE CALCULATION METHOD.....	8
5. ANTENNA INFORMATION.....	8
6. CONDUCTED POWER.....	8
7. MANUFACTURING TOLERANCE.....	8
8. MEASUREMENT RESULTS.....	8
9. CONCLUSION.....	9
10. DESCRIPTION OF TEST FACILITY.....	9
11. MEASUREMENT UNCERTAINTY.....	9

1. Product Information

EUT	: Portable power station
Test Model	: BP2000 PRO
Ratings	: Capacity: 2048Wh,51.2V AC Charging 100-120V 50/60Hz 15A Solar Charging 12V~120V/15A 1000W Max Car Charging 12V= 8A 24V= 10AIP AC Output (5 Outlets) Rated 3300W USB-A (2 Ports) 5V= 2.4A 12W Total QC3.0 (2 Ports) 5V= 3A/9V= 2A/12V= 1.5A 18W 36W Total Type-C (2 Ports) 5V= 3A/9V= 3A/12V= 3A/15V= 3A/20V= 5A 100W PD 200W Total DC Output(2 Ports) 12V= 3A 36W Total Cigarette Lighter Socket 12V= 10A 120W GX16 4 Pin Aviation Socket 24V= 10A 240W
Hardware Version	: 1.2
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 40 channels for Bluetooth V5.2 (DTS)
Channel Spacing	: 2MHz for Bluetooth V5.2 (DTS)
Modulation Type	: GFSK for Bluetooth V5.2 (DTS)
Bluetooth Version	: V5.2
Antenna Description	: Internal Antenna, -1.0dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Mobile Devices
Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.	

2. Evaluation 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.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal	PCB Antenna	2400-2500MHz	-1.0dBi	BT LE Antenna

6. Conducted Power

[BLE1M]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	0.19
	19	2440	0.17
	39	2480	-0.75

7. Manufacturing Tolerance

[BLE1M]

GFSK(Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	0
Tolerance ± (dB)	1.0	1.0	1.0

8. Measurement Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BLE 1M]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
GFSK	1.0	1.2589	-1.0	0.7943	0.0002	1.0000

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

8.2 Simultaneous Transmission MPE Evaluation

The EUT equipped with one module and one antenna. So no need consider simultaneous transmission.

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

10. Description of Test Facility

Site Description

EMC Lab.

:

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

11. Measurement Uncertainty

BLE

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	±0.57dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----