RF Exposure Evaluation

For

Shenzhen Yunji New Energy Technology Co., LTD

Portable Power station

Test Model: P5000 PRO

Additional Model No.: Please Refer to Page 6

Prepared for	:	Shenzhen Yunji New Energy Technology Co., LTD
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Date of receipt of test sample	:	September 22, 2025
Number of tested samples	:	2
Sample No.	:	C250915012-1, C250915012-2
Serial number	:	Prototype
Date of Test	:	September 22, 2025 ~ October 20, 2025
Date of Report	:	October 21, 2025

RF Exposure Evaluation

Report Reference No.	**:**	**LCSC09165009EC**
Date of Issue.....	:	October 21, 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 City, Guangdong Province, 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.....	:	P5000 PRO
Ratings.....	:	Please Refer to Page 6
Result	**:**	**PASS**

Compiled by:	**Supervised by:**	**Approved by:**
Li Jeng Le.	Jason Zhu	Gavin Liang

Lifeng Le/ File administrators	Justin Zhu/ Technique Director	Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : **LCSC09165009EC**	October 21, 2025 Date of issue

Test Model.....	: P5000 PRO
EUT.....	: Portable Power station
Applicant.....	**: Shenzhen Yunji New Energy Technology Co., LTD**
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Address.....	: Floor 4, Building 7, Huiyang hengang technologyindustry park Yangnacun Area, Danshui Street, huiyang district, Huizhou City
Telephone.....	: /
Fax.....	: /

Test Result	**PASS**

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	October 21, 2025	Initial Issue	--

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1. Product Information

EUT	: Portable Power station
Test Model	: P5000 PRO
Additional Model No.	: P5000E PRO, P5000U PRO, P5000J PRO
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Capacity: 5120Wh, 51.2V Ratad Power: 3600W Output type: 100-120V~ *5 Output USB-A: 5V⎓2.4A 12W*2 QC3.0*2: 5V⎓3A, 9V⎓2A, 12V⎓1.5A Output Type-C: PD100W*2 (5V⎓3A, 9V⎓3A, 12V⎓3A, 15V⎓3A, 20V⎓5A) DC Output: 24V⎓10A*1, 12V⎓3A socket *2 AC Adapter: 100V-120V~, 15A Super-Charge: AC100V-120V, 50Hz, Max 15A Solar Charging: AC 12V-120V. 50Hz, Max 15A CarCharging: 12V⎓8A, 24V⎓10A
Hardware Version	: 1.2
Software Version	: /
Bluetooth	
Frequency Range	: 2402MHz-2480MHz
Bluetooth Channel Number	: 40 channels for Bluetooth V5.2 (DTS)
Bluetooth Channel Spacing	: 2MHz for Bluetooth V5.2 (DTS)
Bluetooth Modulation Type	: GFSK for Bluetooth V5.2 (DTS)
Bluetooth Version	: V5.2
Antenna Description	: Internal Antenna, -1.0dBi(Max.)
2.4G WLAN	
Frequency Range	: 2412 MHz-2462 MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Channel Spacing	: 5MHz
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)
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 C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz 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/cm²)	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/f²)*	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/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f²)*	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

Internal Antenna can only use antennas certificated as follows provided by manufacturer;

Internal Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Note
Antenna	Internal Antenna	2400-2500 MHz	-1.0dBi	BT/ WIFI Antenna

6. Conducted Power

[BLE 1M]

Mode	Channel	Frequency(MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	1.19
	19	2440	1.19
	39	2480	0.18

[2.4G WLAN]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
IEEE 802.11b	1	2412	15.08
	6	2437	14.29
	11	2462	14.31
IEEE 802.11g	1	2412	14.17
	6	2437	14.65
	11	2462	14.74
IEEE 802.11n HT20	1	2412	13.61
	6	2437	13.86
	11	2462	13.99
IEEE 802.11n HT40	3	2422	13.28
	6	2437	13.11
	9	2462	12.94

7. Manufacturing Tolerance

[BLE 1M]

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

[2.4G WLAN]

IEEE 802.11b(Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	15.0	14.0	14.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11g(Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n20(Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	13.0	13.0	13.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n40(Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	13.0	13.0	12.0
Tolerance ± (dB)	1.0	1.0	1.0

8. Measurement Results

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 =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BLE 1M]

Modulation Type	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)
	dBm	mW				
GFSK	2.0	1.5849	-1.0	0.7943	0.0003	1.0000

[2.4G WLAN]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)
	dBm	mW				
IEEE 802.11b	16.0	39.8107	-1.0	0.7943	0.0063	1.0000
IEEE 802.11g	15.0	31.6228	-1.0	0.7943	0.0050	1.0000
IEEE 802.11n HT20	14.0	25.1189	-1.0	0.7943	0.0040	1.0000
IEEE 802.11n HT40	14.0	25.1189	-1.0	0.7943	0.0040	1.0000

Remark:
1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

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

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

11. Measurement Uncertainty

BLE/2.4GWIFI:

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.....