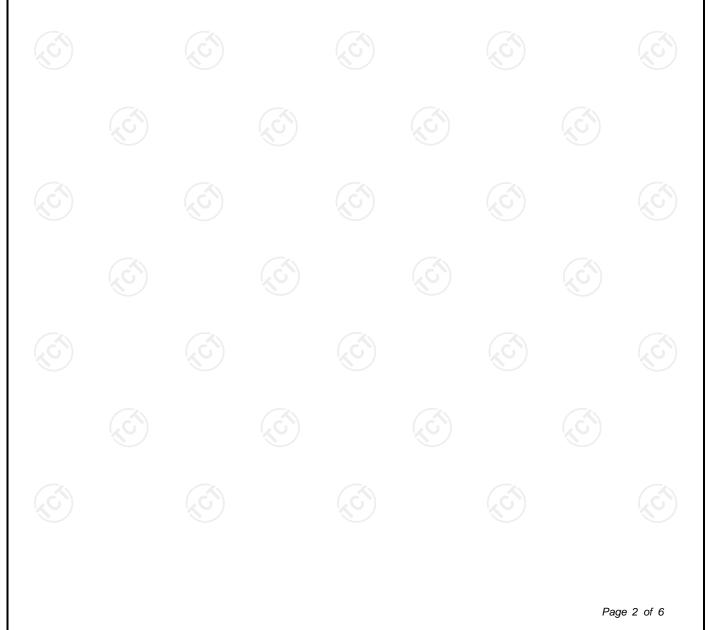
	_			
	TEST REPOR	T		
FCC ID	2AYT3-PREMIUM200			
Test Report No:	TCT241205E029			
Date of issue:	Jan. 14, 2025			
Testing laboratory:	SHENZHEN TONGCE TESTIN	G LAB		
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China			
Applicant's name: :	SHENZHEN POWEROAK NEW	VENER CO., LTD		
Address:	F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China			
Manufacturer's name :	SHENZHEN POWEROAK NEWENER CO., LTD			
Address:	F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China			
Standard(s):	FCC CFR Title 47 Part 1.1307 KDB 447498 D01 V06			
Product Name:	Portable Power Station			
Trade Mark :	BLUETTI			
Model/Type reference :	Premium 200 V2			
Rating(s):	Refer to EUT description of pag	e 3		
Date of receipt of test item	Dec. 05, 2024			
Date (s) of performance of test	Dec. 05, 2024 ~ Jan. 14, 2025			
Tested by (+signature) :	Rleo LIU	Preo Whonges		
Check by (+signature) :	Beryl ZHAO	Boy 2 TCT		
Approved by (+signature):	Tomsin	Tomsines st.		

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

1.	General Product Information			
	1.1. EUT description		<u> </u>	3
	1.2. Model(s) list			3
2.	General Information			4
	2.1. Test environment and mode		\sim	4
	2.2. Description of Support Units			
3.	Facilities and Accreditations			5
	3.1. Facilities			5
	3.2. Location			5
4.	Test Results and Measurement Data	(0)	<u>(()</u>	6





1. General Product Information

1.1. EUT description

Product Name:	Portable Power Station	(\mathbf{c})
Model/Type reference:	Premium 200 V2	
Sample Number:	TCT241205E014-0101	
Operation Frequency:	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz (802.11n(HT40)))
Modulation Type:	For BLE: GFSK For WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM)	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.18dBi	
Rating(s)	AC Input: AC 120V, 50/60Hz, 15A Max. DC/PV Input: DC 12V-60V, 20A, 1000W AC Output: AC 120V, 50/60Hz, 2700W Total USB-A Output: DC 5V, 3A, 15W Each port USB-C Output: DC 5/9/12/15/20V, 3A, DC 20V, 5A Eac (With E-Marker chip built in) Cigarette Lighter Port Output: DC 12V, 10A AC&DC Output: 2800W Total Battery Capacity: DC 38.4V, 54Ah, 2073.6Wh	ch port

this parameter.

1.2. Model(s) list

None.

Report No.: TCT241205E029

2. General Information

2.1. Test environment and mode

ltem	Normal condition				
Temperature		+25°C			
Voltage		DC 38.4V		(\mathcal{C})	
Humidity		56%			
Atmospheric Pressure:		1008 mba	r (C)	(c)	
Test Mode:					
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel				

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1			1	1
Mater				

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339





4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) For BLE: The maximum output power for antenna is 18.20dBm(66.07mW) at 2440MHz, 3.18dBi antenna gain(with 2.08 numeric antenna gain.) For WIFI: The maximum output power for antenna is 19.75dBm(94.41mW) at 2412MHz, 3.18dBi antenna gain(with 2.08 numeric antenna gain.)



Given

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

 $E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$ Where E = Field Strength in Volts / meter P = Power in Watts G = Numeric antenna gain d = Distance in meters S = Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation. Yields: S=0.000199*P*G

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm²)	Result
BLE	18.20	66.07	2.08	0.027348	1.00	PASS
WIFI	19.75	94.41	2.08	0.039078	1.00	PASS
	KU)	KU)		KU)	ko)	

*****END OF REPORT*****

Note: BLE/WIFI Can be transmitted simultaneously, MPE calculate is as follow, MPE=0.027348/1.0+0.039078/1.0=0.066426<1.

Page 6 of 6