

	TEST REPO	RT		
FCC ID:	2A986-QX3600			
Test Report No::	TCT230227E028	(C ¹)		
Date of issue::	Apr. 26, 2023			
Testing laboratory:	SHENZHEN TONGCE TEST	ING LAB		
Testing location/ address:	2101 & 2201, Zhenchang Fac Subdistrict, Bao'an District, SI People's Republic of China			
Applicant's name:	Zhengzhou Zhengfang Techn	ology Co., Ltd	(C ¹)	
Address:	No.503, 5th Floor, Building3, Town, No.16, Jinzhan Street,			
Manufacturer's name:	Zhengzhou Zhengfang Techn	ology Co., Ltd	(3)	
Address:	No.503, 5th Floor, Building3, Yida Science and Technology New Town, No.16, Jinzhan Street, High-tech Zone, Zhengzhou, China			
Standard(s)::	FCC CFR Title 47 Part 1.1307			
Product Name::	Outdoor Portable Power Station			
Trade Mark:	N/A			
Model/Type reference:	QX3600			
Rating(s)::	AC 120V/60Hz Rechargeable Li-ion Battery [DC 57.6V		
Date of receipt of test item:	Feb. 27, 2023			
Date (s) of performance of test:	Feb. 27, 2023 - Apr. 26, 2023			
Tested by (+signature):	Aaron MO	Auron ho	CEZ	
Check by (+signature):	Beryl ZHAO	Boy Comp	CT) STING	
Approved by (+signature):	Tomsin	Tomsies	847	

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





Table of Contents

1. 2.	1.1. 1.2. Gei 2.1.	EUT des Model(s) neral Inf Test env	cription listormation ironment a	and mode.		(80)		3 4 4
3.					·			5
								5 5
4.	Tes	st Result	s and Me	easuremo	ent Data .		(0)	6



1. General Product Information

1.1. EUT description

Product Name:	Outdoor Portable Power Station				
Model/Type reference:	QX3600				
Sample Number:	TCT230227E016-0101				
Operation Frequency:	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) LTE Band 2: TX: 1850 MHz ~ 1910 MHz, RX: 1930 MHz ~ 1990 MHz LTE Band 5: TX: 824 MHz ~ 849 MHz, RX: 869 MHz ~ 894 MHz				
Modulation Type:	For BLE: GFSK For WIFI: DSSS(802.11b), OFDM (802.11g/802.11n) For LTE: QPSK, 16-QAM				
Antenna Type:	For BLE/WIFI: PCB Antenna For LTE: Internal Antenna				
Antenna Gain:	BLE: 2.41dBi WIFI: 2.41dBi LTE Band 2: 1.5dBi LTE Band 5: 0.5dBi				
Rating(s):	AC 120V/60Hz Rechargeable Li-ion Battery DC 57.6V				

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.



Page 3 of 7

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2. General Information

2.1. Test environment and mode

Item	Normal condition				
Temperature	+25°C				
Voltage	DC 57.6V				
Humidity	56%				
Atmospheric Pressure:	1008 mbar				
Test Mode:					
Engineering 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	1

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.

Page 4 of 7



TING CENTRE TECHNOLOGY Report No.: TCT230227E028

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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry 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 tune-up Power for antenna is 8dBm (6.32mW) at 2402MHz,

2.41dBi antenna gain(with 1.74 numeric antenna gain.)

For WIFI: The tune-up Power for antenna is 18dBm (63.10mW) at 2462MHz,

2.41dBi antenna gain(with 1.74 numeric antenna gain.)

For LTE Band 2: The tune-up Power for antenna is 24dBm (251.19mW) at 1880MHz,

1.5dBi antenna gain(with 1.41 numeric antenna gain.)

For LTE Band 5: The tune-up Power for antenna is 23dBm (199.53mW) at 836.5MHz,

0.5dBi antenna gain(with 1.12 numeric antenna gain.)

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:

Given

$$E = \frac{\sqrt{30*P*G}}{2}$$

&
$$S = \frac{E^2}{3770}$$

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(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BLE	6.32	1.74	0.002188		
WIFI	63.10	1.74	0.021849	1.0	DAGG
LTE Band 2	251.19	1.41	0.070481	1.0	PASS
LTE Band 5	199.53	1.12	0.044471		



The device contain transmitters (BT & LTE, WIFI & LTE) can transmit multiple transmission modes at the same time.

Maximum Emissions Level					
Mode	Power density	Limit	Result		
BT & LTE	0.072669	1.0	Pass		
WIFI & LTE	0.092330	1.0			

