




# **FCC TEST REPORT**

## **FCC ID: 2BBEL-ALPHA700**

### **Maximum Permissible Exposure (MPE)**

Product Name : Portable Power Station  
Model Name : Alpha 700, Alpha 700E  
Brand Name :   
Report No. : PTC23021605202E-FC02

#### **Prepared for**

Brand Services and Holdings LLC  
401 Ryland Street, Suite 200-A, Reno, NV, 89502, USA

#### **Prepared by**

Precise Testing & Certification Co., Ltd  
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China



Report No.: PTC23021605202E-FC02

## 1TEST RESULT CERTIFICATION

Applicant's name : Brand Services and Holdings LLC

Address : 401 Ryland Street, Suite 200-A, Reno, NV, 89502, USA

Manufacture's name : KENNEDE ELECTRONICS MFG CO., LTD.

Address : No.21 Jintong Road, Tangxia Town, Pengjiang District, Jiangmen City, Guangdong Province, China.

Product name : Portable Power Station

Model name : Alpha 700, Alpha 700E

Standards : FCC CRF 47 PART 1, §1.1310

Test procedure : KDB 680106 v03 r01

Test Date : Apr. 11, 2023 to Apr. 24, 2023

Date of Issue : Jun. 29, 2023

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Ronnie Liu".

Ronnie Liu / Manager



## Contents

	<b>Page</b>
<b>1 TEST RESULT CERTIFICATION .....</b>	<b>2</b>
<b>2 TEST SUMMARY .....</b>	<b>4</b>
2.1 INSTRUMENT LIST .....	5
2.2 SUPPORT UNITS .....	6
<b>3 TEST FACILITY .....</b>	<b>7</b>
<b>4 GENERAL INFORMATION .....</b>	<b>8</b>
4.1 GENERAL DESCRIPTION OF E.U.T. ....	8
<b>5 RF EXPOSURE EVALUATION .....</b>	<b>10</b>
5.1 LIMITS .....	10
5.2 TEST CONFIGURATION .....	12
5.3 MPE CALCULATION METHOD .....	12
5.4 RF EXPOSURE TEST RESULT .....	12
5.5 RESULT APPRAISE .....	14
<b>6 TEST PHOTO .....</b>	<b>15</b>



## 2 Test Summary

Test	Test Requirement	Test Method	Limit / Severity	Result
RF Exposure	FCC CRF 47 PART 1, §1.1310	KDB 680106 v03 r01	1.1310	PASS

Remark:

N/A: Not Applicable

RF: In this whole report RF means Radio Frequency.

A.M. Amplitude Modulation.

P.M. Pulse Modulation.



Report No.: PTC23021605202E-FC02

## 2.1 Instrument list

Name of Equipment	Manufacturer	Model	Characteristics	Calibration Due	interval time
Exposure Level Tester	Narda	ELT-400	Aug. 21, 2022	Aug. 20, 2023	1 year
H-Field probe	Narda	HF-3061	Aug. 21, 2022	Aug. 20, 2023	1 year
E-Field probe	Narda	EF0691	Aug. 21, 2022	Aug. 20, 2023	1 year



Report No.: PTC23021605202E-FC02

## 2.2 Support Units

Equipment	Model No.	Series No.
Load	Xiaomi 11	N/A



Report No.: PTC23021605202E-FC02

### **3 TEST FACILITY**

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

A2LA Certificate No.: 4408.01

FCC Registration Number: 790290

FCC Designation Number: CN1219

IC Registration Number: 12191A

CAB identifier: CN0080



## 4 General Information

### 4.1 General Description of E.U.T.

Product Name	:	Portable Power Station
Model Name	:	Alpha 700,Alpha 700E
Operating frequency	:	110.5 kHz ~ 205kHz
Antenna Type	:	Coil Antenna
Power supply	:	AC Charging: 85-135V, 50Hz/60Hz, Max.6A Max AC Charging Power: 600W
Hardware Version	:	N/A
Software Version	:	N/A





Test mode:

Antenna1(charging Mobile phone):

Pretest Mode	Description
Mode 1	Stand charging mode(5W,no load, half load, full load)
Mode 2	Stand charging mode(7.5W,no load, half load, full load)
Mode 3	Stand charging mode(10W,no load, half load, full load)
Mode 4	Stand charging mode(15W,no load, half load, full load)



## 5 RF Exposure Evaluation

### 5.1 Limits

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

\*Plane-wave equivalent power density

- A. The RF exposure test was performed in anechoic chamber.
- B. E and H field measurements should be made with the center of the probe at distance of 15cm surrounding the EUT and 20cm above the top surface of the primary/client pair.
- C. The highest emission level was recorder and compared with limit.
- D. The EUT was measured according to the dictates of KDB 680106 v03r01.



(A) Limits for Occupational / Controlled Exposure

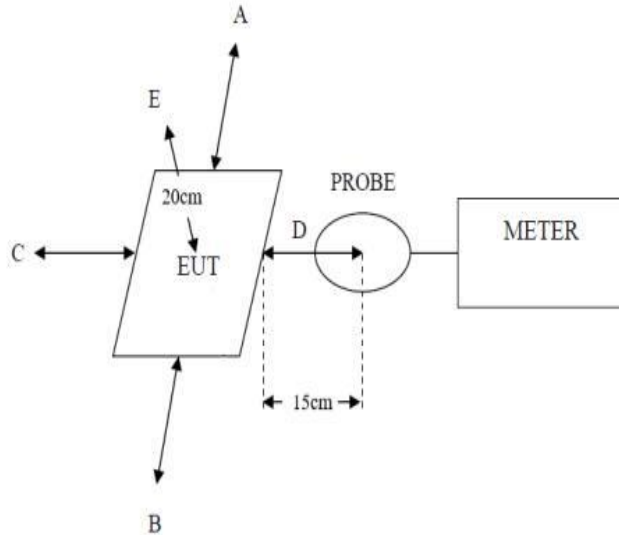
Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

## 5.2 Test Configuration



## 5.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

## 5.4 RF Exposure test result

Temperature: 24°C

Relative Humidity: 53%



EUT was tested with empty load, half load and full load, the full load is the worst case and

we listed the results in the report.

**Charging mobile phone:**

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Reading result ( $\mu$ T)	Test result (A/m)	50% Limit (A/m)	Limit (A/m)	Result
A: Right	15	0.1124	0.0899	0.815	1.63	Passed
B: Left	15	0.0563	0.0451	0.815	1.63	
C: Front	15	0.0625	0.0500	0.815	1.63	
D: Back	15	0.0508	0.0406	0.815	1.63	
E: Top	15	0.0515	0.0412	0.815	1.63	
E: Top	20	0.1102	0.0882	0.815	1.63	

Note:  $A/m = \mu T / 1.25$

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result
A: Right	15	2.58	614	Passed
B: Left	15	2.14	614	
C: Front	15	2.25	614	
D: Back	15	2.21	614	
E: Top	15	2.18	614	
E: Top	20	2.62	614	



## 5.5 Result appraise

(1) Power transfer frequency is less than 1 MHz

--Yes. it's 110.5-205KHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

the requirement.

--Yes. It is max power 15W.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

--Yes. The sample have one coil to charge .

(4) Client device is placed directly in contact with the transmitter.

--Yes. Client device is placed directly.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

--Yes.it is mobile production.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

--Yes, The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

## 6 Test Photo



\*\*\*\*\*THE END REPORT\*\*\*\*\*