

**Address** 

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# **FCC Test Report**

Applicant : Shenzhen WKSP Power Technology CO., Ltd

Floor 1401, Block 1, Baiwang R&D Building,

: 5298 Shahe West Road, Baimang Community,

Xili Street, Nanshan District, Shenzhen, PRC

Product Name : PORTABLE POWER STATION

Report Date : Jul. 26, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited



Code:AB-RF-05-b

Hotline
400-003-0500

www.anbotek.com.cn





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# **TEST REPORT**

Applicant : Shenzhen WKSP Power Technology CO., Ltd

Manufacturer : Huizhou Intelligent Energy Co., Ltd.

Product Name : PORTABLE POWER STATION

Model No. : PTB200

Trade Mark : N/A

Rating(s) : Please refer to page 6.

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB 680106 D01 Wireless Power Transfer v04

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Jun. 15, 2024
Date of Test	Jun. 15, 2024 to Jul. 26, 2024
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# **Revision History**

Report Version		Description			Issued Date				
R00		Original Issue.			Jul. 26, 2024				
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hotek	Anbotek	Anbore	rek	<b>Vupo</b> tek	Anborek	Aupor	k Anbotek	Anbore	k Vu





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# 1. General Information

# 1.1. Client Information

Dr.	50,	AND OK NO. N.
Applicant	:	Shenzhen WKSP Power Technology CO., Ltd
Address	:	Floor 1401, Block 1, Baiwang R&D Building, 5298 Shahe West Road, Baimang Community, Xili Street, Nanshan District, Shenzhen, PRC
Manufacturer		Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China
Factory		Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China

# 1.2. Description of Device (EUT)

Product Name	:	PORTABLE POWER STATION
Model No.	:	PTB200
Trade Mark	:	N/A ore And tek nborek Anbore
Test Power Supply	:	DC 51.2V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	115-205kHz
Modulation Type	:	ASK Anborek Anborek Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Remark: 1) All of the R	Fs	pecification are provided by customer. 2) For a more detailed features
description, please refe	r to	the manufacturer's specifications or the User's Manual.







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Rating(s):

# **WKSP** PORTABLE POWER STATION

- Type: PTB200

  Battery Energy: 1843.2Wh, 51.2V

   Solar Input: DC 12-75V=25A, 800W Max

   AC Input: AC 100-130V-10A 60Hz, 1200W Max

   AC Socket(x4) Output: AC 120V-60Hz, 2400W, Total: 2400W Max

   USB-C(x2) Output: (5V/9V/12V/15V/20V) = 3A, 20V=5A, 100W Each port, Total: 200W

   USB-A(x2) Output: 5V=3A, 9V=2A, 12V=1.5A, 18W Each port, Total: 36W

   DC 5521(x2)+DC Power Socket 12V=10A, Total: 120W Max

   LED lighting output: 5W Max

   Wireless Output: 10W Total DC Output: 366W

   Total AC and DC Output: 2640W Max

   Operating Temp: 14°F to 104°F (-10°C to 40°C)

   Charging Temp: 32°F to 104°F (0°C to 40°C)

   Manufacturer: Huizhou Intelligent Energy Co., Ltd.

   Date Code:

- Date Code:

3.06.04.0729







#### **A CAUTION!**

- Risk of electric shock. Do not remove cover.
   No user serviceable parts inside. Refer servicing to qualified service personnel.
   Risk of Injury to persons. Do not use this product if the power cord or the battery cables are damaged in any way.
   This device is not intended for use in a commercial repair facility.

#### WARNING!

- Do not overcharge the internal battery. See Instruction Manual.
  Do not smoke, strike a match, or cause a spark in the vicinity of the power pack.
  Only charge the internal battery in a well ventilated area.
  Risk of Electric shock and risk of fire.

#### DANGER!

· This device is intended to be used indoors only. Do not use outdoors.

### **⚠ MISE EN GARDE!**

- ANGLEN DARUE:

  Risque de décharge électrique. Ne pas enlever le couvercle.

  Aucune des pièces à l'inténeur ne peut être réparée par l'utilisateur. L'entretien courant doit être effectué par un personnel d'entretien qualifié.

  Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sontendommagés de quelque façon.

  Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commerciel.

#### AVERTISSEMENT!

- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.
  Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité
- du bloc d'alimentation.

   Charger la batterie uniquement dans un endroit bien aéré.

   Risques de déchargeélectrique et d'incendie.

#### DANGER!

• Le dispositif est destiné à être utilisé à l'intérieur seulement. Ne pas l'utiliser à l'extérieur.

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755-26066440 Fax:(86) 0755-26014772 Email:service@anbotek.com







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# 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless charging load	Shenzhen Ouju Technology Co., Ltd.	CD2577	Anborek / Anborek

# 1.4. Description of Test Modes

Pr	etest Modes	Descriptions
hotek	TM1	Charging+WTP Mode (10W 1% Load)
Ann	TM2	Charging+WTP Mode (10W 50% Load)
Ansabotek	TM3	Charging+WTP Mode (10W 99% Load)
ek apo	TM4	WTP Mode (10W 1% Load)
rek no	TM5	WTP Mode (10W 50% Load)
otek.	TM6	WTP Mode (10W 99% Load)
unb hotek	TM7	Standby Mode

# 1.5. Test Equipment List

lte	em	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
orek onbo	1,	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 16, 2023	1 Year

# 1.6. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbotek	Anborok	Aupotek	Aupolo
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anbotek	Anbotek	k Anbotek	P.U.

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

Code:AB-RF-05-b

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## 1.7. Description of Test Facility

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

### FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

#### 1.8. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.







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# 2. Measurement and Result

### 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.







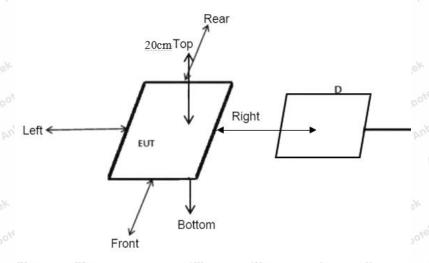
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Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	*
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	ş-
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	1	1	f/1500	30
1500-100,000	1	1	1.0	30

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m)

### 2.2. Test Setup



Note: Measurements should be made at 20 cm surrounding the EUT and 20cm above the top surface of the EUT.

**Shenzhen Anbotek Compliance Laboratory Limited** 

Code: AB-RF-05-b



F=frequency in MHz \*=Plane-wave equivalent power density



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### 2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04

Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v04.
- (1) The power transfer frequency is below 1 MHz.
- The device operate in the frequency range 115-205kHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
  - The maximum output power of the primary coil is 10W.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- The surfaces of the transmitter and client device enclosures is in physical contact.
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
  - The EUT is a Mobile exposure conditions
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
  - Conducted the measurement with the required distance and the test results please refer to the section 2.4.







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- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
  - The EUT is one radiating structure.

### 2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	23°C	Relative Humidity:	50 %
Pressure:	101 kPa	Test Voltage:	DC 51.2V Battery inside

### E-Field Strength at 20 cm surrounding the EUT and 20cm above the top surface of the EUT

Test Mode	Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
TM1	115-205	3.307	3.557	3.007	3.057	3.207	307	614
TM2	115-205	1.108	1.208	1.258	1.308	1.158	307	614
TM3 M	115-205	0.840	0.865	0.830	0.845	0.860	307	614
TM4	115-205	3.394	3.644	3.094	3.144	3.294	307	614
TM5	115-205	1.381	1.481	1.531	1.581	1.431	307	614
TM6	115-205	1.301	1.326	1.291	1.306	1.321	307	614
TM7	115-205	0.257	0.257	0.307	0.307	0.257	307	614







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### H-Field Strength at 20 cm surrounding the EUT and 20cm above the top surface of the EUT

100	2,0	2.0	0	677		The state of the s	30	0.4
Test Mode	Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
TM1	115-205	0.661	0.711	0.601	0.611	0.641	0.815	1.63
TM2	115-205	0.222	0.242	0.252	0.262	0.232	0.815	1.63
TM3	115-205	0.168	0.173	0.166	0.169	0.172	0.815	1.63
TM4	115-205	0.679	0.729	0.619	0.629	0.659	0.815	1.63
TM5	115-205	0.276	0.296	0.306	0.316	0.286	0.815	1.63
TM6	115-205	0.260	0.265	0.258	0.261	0.264	0.815	1.63
TM7	115-205	0.051	0.051	0.061	0.061	0.051	0.815	1.63





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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_MPE

# APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

# **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

