



FCC TEST REPORT

**Test report
On Behalf of
ShenZhen Ouyixin Technology Co.,Ltd.
For
300W Portable Power Station
Model No.: KP-300
FCC ID: 2A6NRKP-300**

Prepared for : ShenZhen Ouyixin Technology Co.,Ltd.
609, Block A, Huafeng Baoan Zhigu Science and Technology Innovation
Park,Yintian Rd.4, Xixiang Jiedao, Bao'an District, Shenzhen, China

Prepared By : Shenzhen Tongzhou Testing Co.,Ltd
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Date of Test: 2022/4/21 ~ 2022/4/26

Date of Report: 2022/4/27

Report Number: TZ220403173-E2

The test report apply only to the specific sample(s) tested under stated test conditions
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laboratory.



TEST RESULT CERTIFICATION

Applicant's name : ShenZhen Ouyixin Technology Co.,Ltd.
609, Block A, Huafeng Baoan Zhigu Science and Technology
Address : Innovation Park,Yintian Rd.4, Xixiang Jiedao, Bao'an District,
Shenzhen, China
Manufacture's Name..... : ShenZhen Ouyixin Technology Co.,Ltd.
609, Block A, Huafeng Baoan Zhigu Science and Technology
Address : Innovation Park,Yintian Rd.4, Xixiang Jiedao, Bao'an District,
Shenzhen, China

Product description

Trade Mark : 

Product name : 300W Portable Power Station

Model : KP-300

Standards : FCC Rules and Regulations Part 15 Subpart C (Section 15.209),
ANSI C63.10: 2013

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Date of Test :

Date (s) of performance of tests : 2022/4/21 ~ 2022/4/26

Date of Issue : 2022/4/27

Test Result : **Pass**

Testing Engineer : Nancy Li
(Nancy Li)

Technical Manager : Hugo Chen
(Hugo Chen)

Authorized Signatory : Andy Zhang
(Andy Zhang)



1. GENERAL INFORMATION

1.1 General Description of EUT

Equipment	300W Portable Power Station
Model Name	KP-300
Model Difference	N/A
Test Model	KP-300
Trade Mark	
FCC ID	2A6NRKP-300
Antenna Type	Coil Antenna
Antenna Gain	1.0dBi
Operation frequency	115– 205 KHz
Test Frequency	127kHz
Modulation Type	ASK
Power Rating	Input: 18V $\overline{\text{---}}$ 5A Output: 5W, 7.5W, 10W, 15W (Wireless charger)
Test Sample ID	TZ220403173-1#

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



2. SUMMARY OF TEST RESULTS

2.1 Test procedures according to the technical standards:

FCC KDB680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03 (3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	All emissions, radiated(<30M)(9KHz-30MHz)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$



2.3 Test Instruments

Equipment	Manufacturer	Model	Serial no.	Calibrated date	Calibrated Due
Exposure Level Tester	Narda	ELT-400	N-0713	2021-08-08	2022-08-07
B-Field Probe	Narda	ELT-400	M-1154	2021-08-08	2022-08-07

NOTE: 1. The calibration interval of the above test instruments is 12 months.

2.4 Special Accessories

No.	Equipment	Manufacturer	Model
1	Wireless charger tester	YBZ	YBZ
2	AC adapter	/	BSG-100W1805000

2.5 Operation of EUT during testing

Test Modes:		
Mode 1	AC/DC Adapter (18V/5.0A) + EUT + Wireless charger tester (Load 15W)	Record
Mode 2	AC/DC Adapter (18V/5.0A) + EUT + Wireless charger tester (Load 10W)	Record
Mode 3	AC/DC Adapter (18V/5.0A) + EUT + Wireless charger tester (Load 7.5W)	Record
Mode 4	AC/DC Adapter (18V/5.0A) + EUT + Wireless charger tester (Load 5W)	Record
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		



3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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
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 ²)	Averaging Time E ² , H ² or S (minutes)
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	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

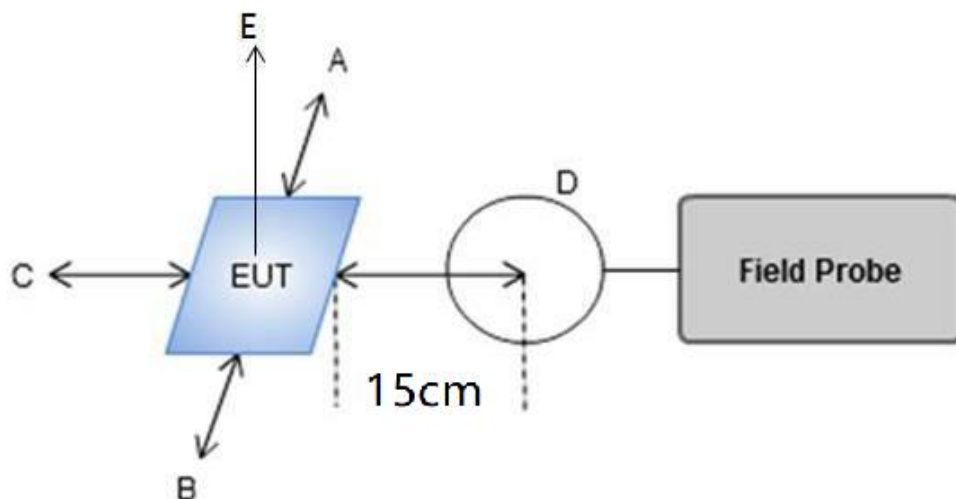
Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.

4.1 TEST SETUP



4.2 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

Temperature	22.8°C	Humidity	55%
Test Engineer	Tony Luo	Configurations	Mode 1/ Mode 2/ Mode 3/ Mode 4

E-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

Test Mode	Power Load	Unit	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
				Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1	15W	v/m	0.127	64.9646	48.0750	75.4603	75.0682	166.8150	307	614
2	10W	v/m	0.127	59.1438	60.2898	43.1590	42.1335	145.0696	307	614
3	7.5W	v/m	0.127	58.6009	54.2880	48.2862	38.2730	137.9820	307	614
4	5W	v/m	0.127	54.6801	55.4944	46.9893	36.5539	137.4090	307	614

Note: V/m= A/m *377



H-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

Test Mode	Power Load	Unit	Frequency Range (MHz)	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
				Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1	15W	uT	0.127	0.2154	0.1594	0.2502	0.2489	0.5531	--	--
	15W	A/m	0.127	0.1723	0.1275	0.2002	0.1991	0.4425	0.815	1.63
2	10W	uT	0.127	0.1961	0.1999	0.1431	0.1397	0.4810	--	--
	10W	A/m	0.127	0.1569	0.1599	0.1145	0.1118	0.3848	0.815	1.63
3	7.5W	uT	0.127	0.1943	0.1800	0.1601	0.1269	0.4575	--	--
	7.5W	A/m	0.127	0.1554	0.1440	0.1281	0.1015	0.3660	0.815	1.63
4	5W	uT	0.127	0.1813	0.1840	0.1558	0.1212	0.4556	--	--
	5W	A/m	0.127	0.1450	0.1472	0.1246	0.0970	0.3645	0.815	1.63

H-Field Strength at 20cm from the top surface of the EUT

Test Mode	Power Load	Unit	Frequency Range (MHz)	Measured H-Field Strength Values (A/m)	FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
				Test Position E		
1	15W	uT	0.127	0.2591	--	--
	15W	A/m	0.127	0.2073	0.815	1.63
2	10W	uT	0.127	0.2355	--	--
	10W	A/m	0.127	0.1884	0.815	1.63
3	7.5W	uT	0.127	0.2207	--	--
	7.5W	A/m	0.127	0.1766	0.815	1.63
4	5W	uT	0.127	0.2033	--	--
	5W	A/m	0.127	0.1626	0.815	1.63

Note: A/m=uT/1.25



4.3 Equipment Approval Considerations

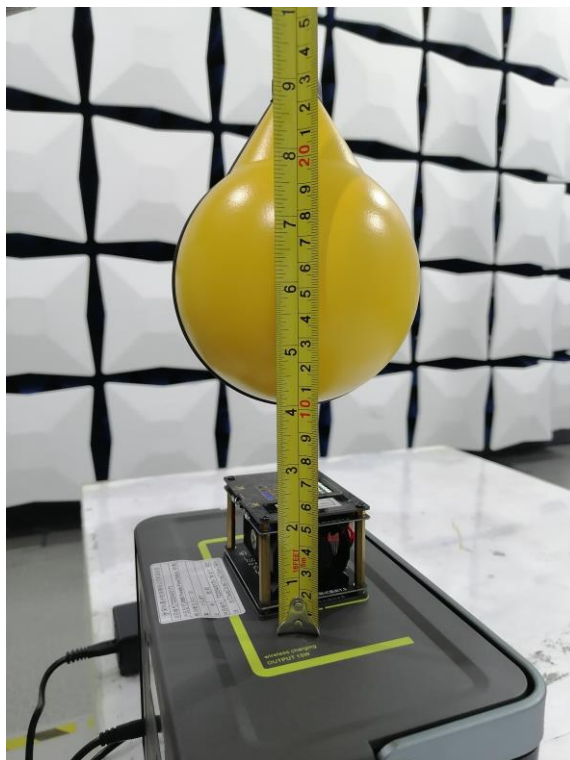
The EUT does comply with KDB 680106 D01 as follow table.

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 115KHz~205KHz
Output power from each primary coil is less than 15 watts	Yes	The maximum output power for each primary coil is 15W.
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes	The transfer system includes one primary coils and are able to detect and allow coupling only between individual pairs of coils.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Mobile exposure conditions only
The aggregate 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.	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.

4.4 Conclusion

The detected emissions with a distance of 15cm surrounding the device and 20 cm above the top surface of the device are below the FCC E-Field Strength & H-Field Strength limits; and comply with the requirements of FCC KDB 680106 D01.

PHOTOGRAPH OF TEST



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