



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK231009011AE002

Page: 1 of 11

FCC ID: 2BC7CYWSA-600W

TEST REPORT

Application No.: BTEK231009011AE
Applicant: Anhui Yuwei New Energy Materials Co., Ltd
Address of Applicant: Building 1 on the west side of the Citizen Service Center in Nanling County, Wuhu, Anhui Province, China
Manufacturer: Anhui Yuwei New Energy Materials Co., Ltd
Address of Manufacturer: Building 1 on the west side of the Citizen Service Center in Nanling County, Wuhu, Anhui Province, China
Factory: Anhui Yuwei New Energy Materials Co., Ltd
Address of Factory: Building 1 on the west side of the Citizen Service Center in Nanling County, Wuhu, Anhui Province, China
Equipment Under Test (EUT):
EUT Name: 600W Portable Power Station
Model No.: YWSA-600W
Trade Mark: NA
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1091
Date of Receipt: 2023-10-10
Date of Test: 2023-10-10 to 2023-10-25
Date of Issue: 2023-10-25

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Damon Su
EMC Laboratory Manager



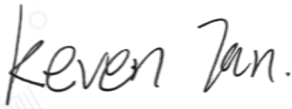


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Report No.BTEK230808004AE002

Page: 2 of 11

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-10-25		Original

Authorized for issue by			
			
		Carl Yang /Project Engineer	
			
		Keven Tan /Reviewer	



2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information.....	4
3.1 Details of E.U.T.	4
3.2 Description of Support Units	4
3.3 Test Location.....	5
3.4 Deviation from Standards.....	5
3.5 Abnormalities from Standard Conditions	5
4 Test Requirement.....	6
4.1 Assessment Result	7
4.2 Test Set-up Photo	9



3 General Information

3.1 Details of E.U.T.

Power Supply	Battery Capacity:30Ah/19.2V/576Wh INPUT Type-C PD100W AC output 600W USB1 OUTPUT QC3.0 MAX 12V1.5A USB2 OUTPUT QC3.0 MAX 12V1.5A Type-C1 OUTPUT PD18W Type-C2 OUTPUT PD100W Wireless output :5W/7.5W/10W/15W DC Output: 2 x DC 12V 10A (10A Max.) Charging parameter DC12-24V/5A Car Charger Outlet: 12V 10A Max.
Modulation Type	FSK
Frequency Range	The frequency block is 110.0 KHz to 205.0KHz.
Antenna Type	Coil antenna
Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
WPC charging load	EESON	2S	--



3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Tel:0755-2334 4200

Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

KDB 680106 D01 RF Exposure Wireless Charging App v04

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

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 110KHz~205KHz
Output power from each primary coil is less than 15 watts	Yes	The maximum output power for each primary coil is 15W.
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 transfer system includes only one primary 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 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.

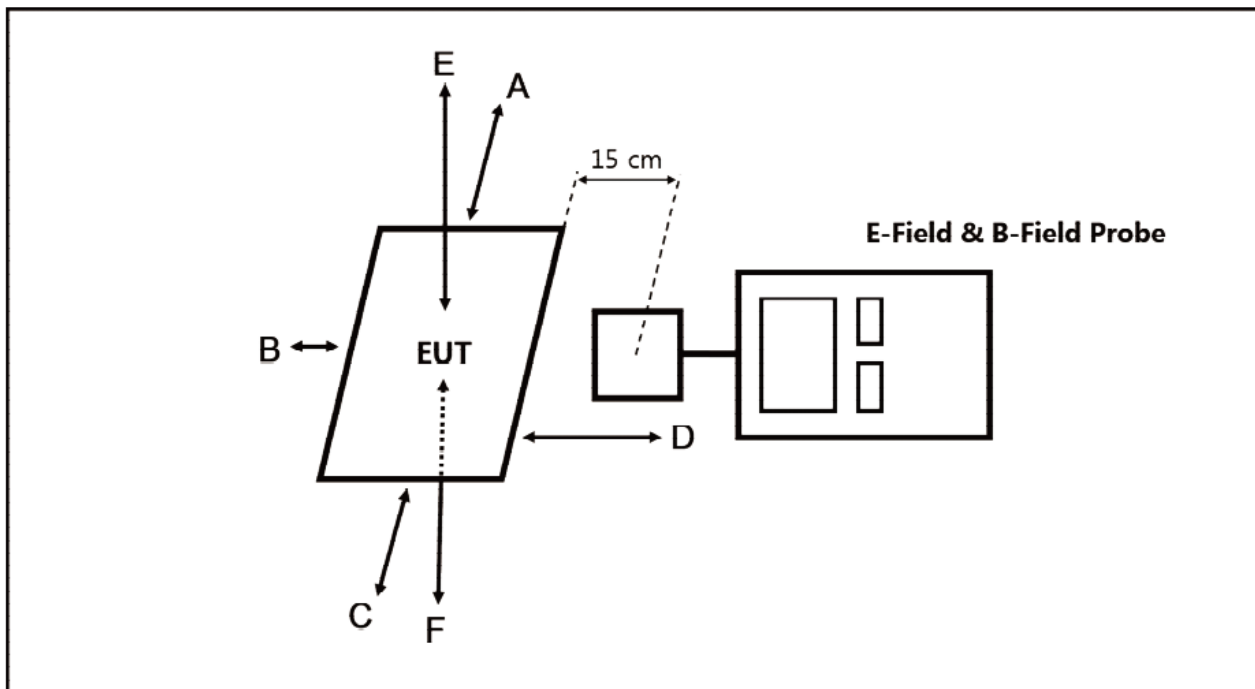
TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density



Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15cm measured from the center of the probe(s) to the edge of the device.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15cm) 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, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v04.

4.1 Assessment Result

☒ Passed ☐ Not Applicable

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

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

Charging Battery Level	Unit	Frequency Range (MHz)	Measured E-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%	uT	0.135	0.1576	0.1598	0.1527	0.1520	0.1558	--	--
1%	A/m	0.135	0.1233	0.1297	0.1291	0.1255	0.1222	0.815	1.63
50%	uT	0.135	0.1369	0.1342	0.1325	0.1334	0.1385	--	--
50%	A/m	0.135	0.1029	0.1066	0.1065	0.1071	0.1044	0.815	1.63
99%	uT	0.135	0.1248	0.1277	0.1207	0.1213	0.1203	--	--
99%	A/m	0.135	0.0964	0.0984	0.0901	0.0944	0.0928	0.815	1.63

uT=1.25* A/m

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

Charging Battery Level	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%	V/m	0.135	45.2082	45.2057	45.2091	45.2044	45.2016	307.0	614.0
50%	V/m	0.135	39.5076	39.5009	39.5076	39.5090	39.5016	307.0	614.0
99%	V/m	0.135	37.8090	37.8089	37.8068	37.8062	37.8062	307.0	614.0

Note: V/m= A/m *377

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

Charging Battery Level	Unit	Frequency Range (MHz)	Measured E-Field Strength Values (A/m)	FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position E		
1%	uT	0.135	0.1077	--	--
1%	A/m	0.135	0.1051	0.815	1.63
50%	uT	0.135	0.1049	--	--
50%	A/m	0.135	0.1013	0.815	1.63
99%	uT	0.135	0.1075	--	--
99%	A/m	0.135	0.1079	0.815	1.63

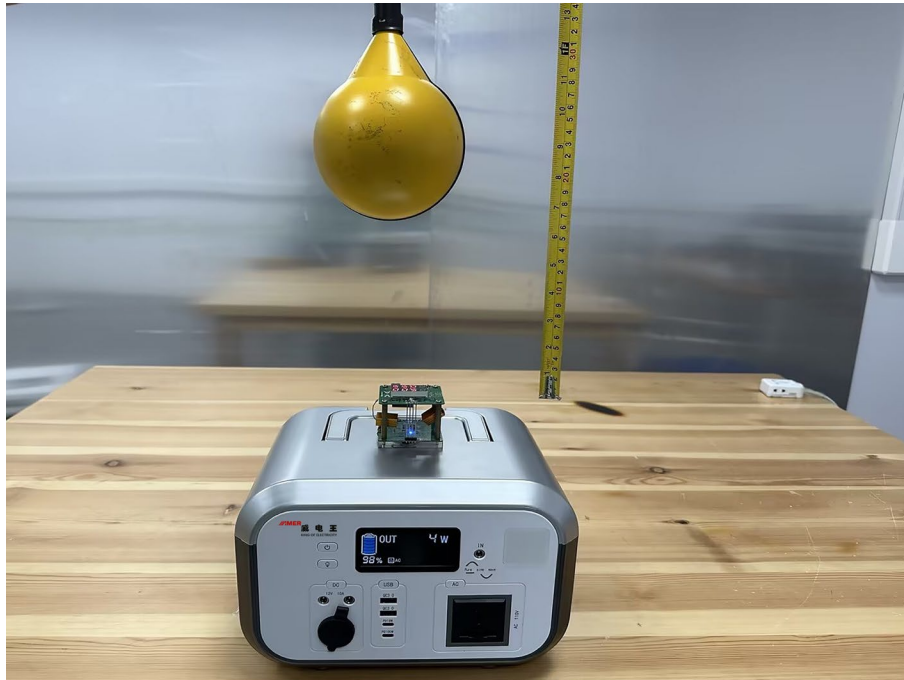
Note:A/m=uT/1.25

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

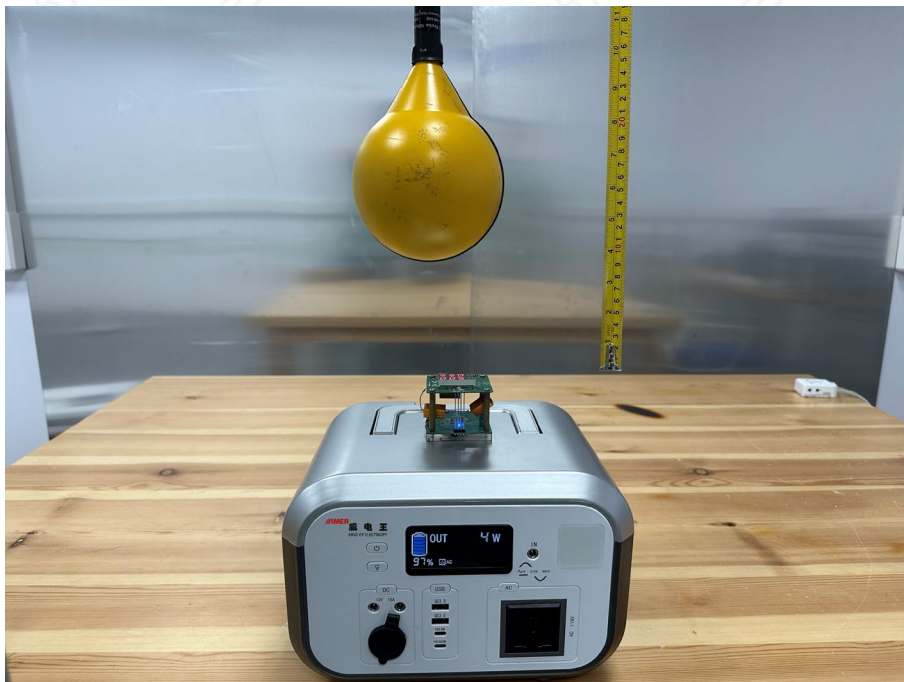


4.2 Test Set-up Photo

Top 20cm



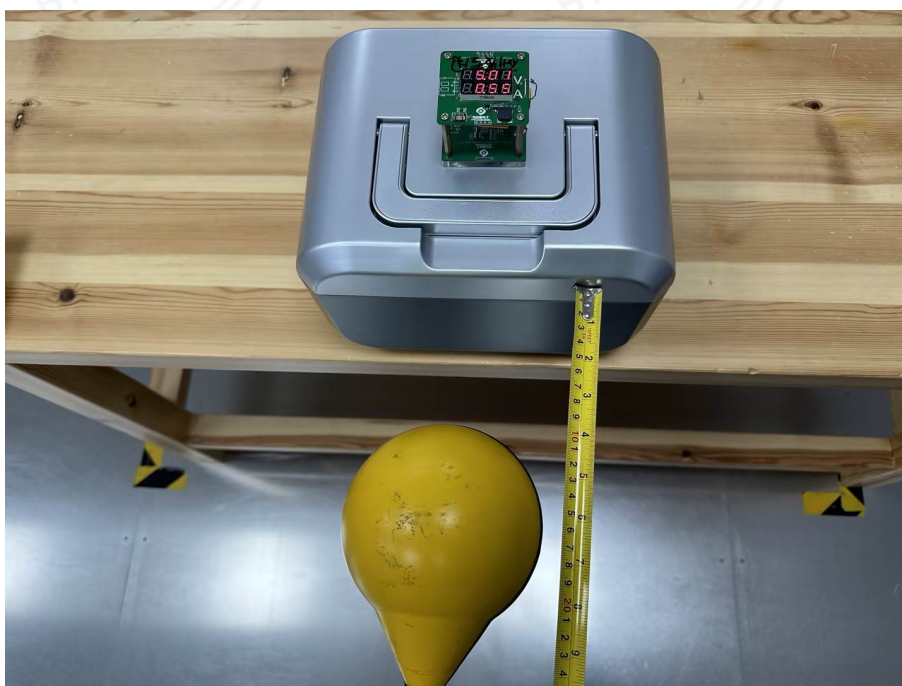
Top 15cm



Front 15cm



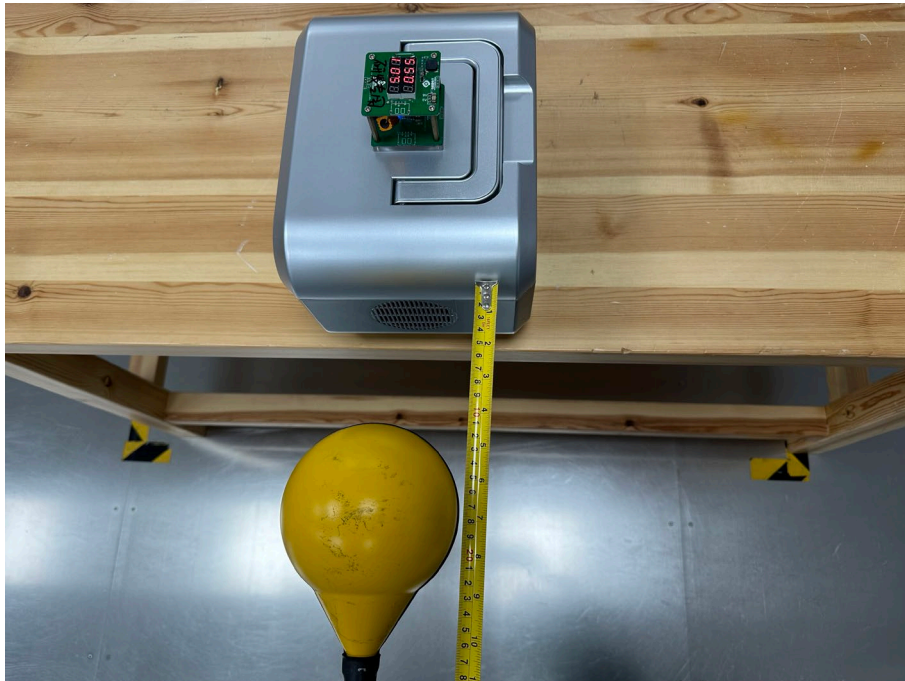
Rear 15cm



Left 15cm



Right 15cm



- End of the Report -

