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Report No.: HK2307253251-2E

FCC Test Report

Test Report On Behalf of RUNHOOD POWER INC. For Portable power station Model No.: HE600 MINI-US

FCC ID: 2BB59-HE600MINI-US

Prepared For:

RUNHOOD POWER INC.

3980-D Valley Blvd, Walnut, CALIFORNIA 91789, United States

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

 Date of Test:
 Jul. 26, 2023 ~ Aug. 02, 2023

 Date of Report:
 Aug. 02, 2023

 Report Number:
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Test Result Certification

Applicant's Name:	RUNHOOD POWER INC.
Address:	3980-D Valley Blvd, Walnut, CALIFORNIA 91789, United States
Manufacture's Name:	Shanghai Runhood Power Co., Ltd.
Address:	Room103, Bldg. 2, No. 218, Mingnan Rd, Songjiang Dist., Shanghai, P.R. China

Product Description

Trade Mark:	N/A
Product Name:	Portable power station
Model and/or Type Reference:	HE600 MINI-US
Standards:	FCC CFR 47 PART 18, KDB 680106 D01

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Date of Test	
Date (s) of Performance of Tests	Jı
Date of Issue:	A
Test Result	Pa

Jul. 26, 2023 ~ Aug. 02, 2023 Aug. 02, 2023 Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory :

asin

(Jason Zhou)

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Frequency Band: 112-205KHz

Channel List							
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Middle CH	132	STING			-5	ING	
STING		HUAK		MAG	HUAK		STING
WAKTER			WAKTE				UAKTE
9.			0			0	

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 KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

10	FCC CFR 47								
	Standard Section	Test Item	Judgment	Remark					
JAK	FCC CFR 47 part1, 1.1310 KDB 680106 D01v03r01 (3)(3)	Magnetic Field Strength (H) (A/m)	PASS	RIAK TESTING					

2.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended 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
STING 1 STING	All Emissions, Radiated(<30M)(9KHz-30MHz)	±3.90dB
2	Temperature	±0.5°C
3	Humidity	±2%

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2.3. Test Instruments

Description	Brand	Model No.	S/N	Calibrated Date	Calibrated Until
Electric and Magnetic Field Analyzer	narda	EHP-200AC	180ZX11028	Feb. 17, 2023	Feb. 16, 2024

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

2.4. Test Mode

	Test	HUNKTER	and the
Test Item	mode	Description	n and resines
O O			
	Mode 1	AC/DC Adapter+ EUT + Mobile Pho	one (Battery Status: <1%)
TESTING	STING	CETING CETING	TSTING
MPE	Mode 2	AC/DC Adapter+ EUT + Mobile Pho	ne (Battery Status: <50%)
test cases	Mode 3	AC/DC Adapter+ EUT + Mobile Phor	ne (Battery Status: <100%)
(TESTIN	Mode 4	EUT + Mobile Phone (Batt	ery Status: <1%)
HURS	Mode 5	EUT + Mobile Phone (Batte	ery Status: <50%)
s 🔮	Mode 6	EUT + Mobile Phone (Batte	ry Status: <100%)

Note:

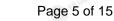
1. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

2. The Mobile Phone provided by Lab.

3. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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3. Maximum Permissible Exposure

HUAK TESTING

Limit of Maximum Permissible Exposure

	Limits for Occ	upational / Controlle	ed 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)*	6,500
30-300	61.4	0.163	1.0	6
300-1500	W TESTING		F/300	6
1500-100,000	NG OHON	TING	5	6
	Limits for General	Population / Uncon	trolled 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	0	HUNKIL	F/1500	30
1500-100,000	TESTING		-stars	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 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

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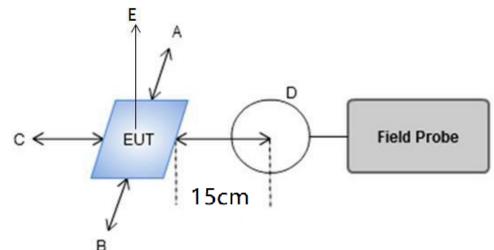
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4. Test Procedure

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 (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side is 20cm).

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

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AC Mode:

For Full load: H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
 A/m	0.0644	0.0342	0.0276	0.0332	0.0264	1.63

For Half Load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Fiel streng		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
A/m	1	0.0288	0.0266	0.0207	0.0313	0.0352	1.63

For No load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field	Test	Test	Test	Test	Test	Limits
strength	Position A	Position B	Position C	Position D	Position E	(A/m)
A/m	0.0336	0.0279	0.198	0.0367	0.0337	1.63

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DC Mode:

For Full load mode:

Measuring distance (cm)	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)
0	🔍 A/m	0.795	0.755	0.689	0.712	0.669	0.703	1.63
2	A/m	0.782	0.713	0.624	0.735	0.647	0.754	1.63
4	A/m	0.702	0.698	0.694	0.719	0.674	0.685	1.63
6	A/m	0.697	0.622	0.633	0.694	0.583	0.582	1.63
8	A/m	0.611	0.604	0.513	0.530	0.590	0.559	1.63
10	A/m	0.549	0.531	0.518	0.613	0.606	0.517	1.63
12	A/m	0.569	0.545	0.493	0.506	0.477	0.450	1.63
14	A/m	0.499	0.467	0.413	0.436	0.414	0.566	1.63
16	A/m	0.431	0.464	0.397	0.354	0.403	0.412	1.63
18	A/m	0.402	0.317	0.323	0.436	0.389	0.364	1.63
20	A/m	0.289	0.334	0.289	0.205	0.262	0.170	1.63
- CAN	Color State		- GV	Col Y		- C \		- Call

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

For Half Load mode:

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

Measuring distance (cm)	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)	
0 404	A/m	0.767	0.715	0.664	0.724	0.652	0.714	1.63	
2	A/m	0.752	0.703	0.607	0.699	0.587	0.687	1.63	
4	A/m	0.687	0.669	0.682	0.702	0.616	0.651	1.63	
6	A/m	0.612	0.604	0.621	0.682	0.574	0.573	1.63	
8	A/m	0.634	0.568	0.564	0.521	0.582	0.525	1.63	
10	A/m	0.513	0.524	0.509	0.561	0.598	0.496	1.63	
12	A/m	0.565	0.504	0.485	0.467	0.423	0.487	1.63	
14	A/m	0.412	0.438	0.422	0.425	0.407	0.512	1.63	
16	A/m	0.403	0.451	0.367	0.363	0.369	0.347	1.63	
18	A/m	0.399	0.326	0.301	0.409	0.342	0.312	1.63	
20	A/m	0.214	0.301	0.266	0.217	0.202	0.179	1.63	

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For No load mode:

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

Measuring distance (cm)	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)
0	A/m	0.733	0.734	0.676	0.723	0.684	0.716	1.63
2	A/m	0.702	0.694	0.624	0.657	0.624	0.706	1.63
4	A/m	0.687	0.624	0.598	0.562	0.603	0.616	1.63
6	A/m	0.664	0.603	0.588	0.622	0.562	0.515	1.63
8	A/m	0.587	0.578	0.526	0.532	0.525	0.506	1.63
10 🔊	A/m	0.531	0.564	0.497	0.533	0.502	0.533	1.63
12	A/m	0.519	0.495	0.402	0.416	0.425	0.431	1.63
14	A/m	0.407	0.367	0.367	0.347	0.321	0.366	1.63
16	A/m	0.367	0.304	0.388	0.306	0.341	0.317	1.63
18	A/m	0.267	0.307	0.312	0.287	0.264	0.213	1.63
20	A/m	0.202	0.223	0.264	0.199	0.203	0.187	1.63

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Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). 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. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

(1) Power transfer frequency is less than 1 MHz.

- The device operate in the frequency range for 112KHz~ 205KHz

(2) Output power from each primary coil is less than or equal to 15 watts. - The maximum output power is 15W

(3) The system consists 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. -- The transfer system is a charging system with only one main coil.

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

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

- Yes, mobile device only.

(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.

- The EUT meet the conditions.

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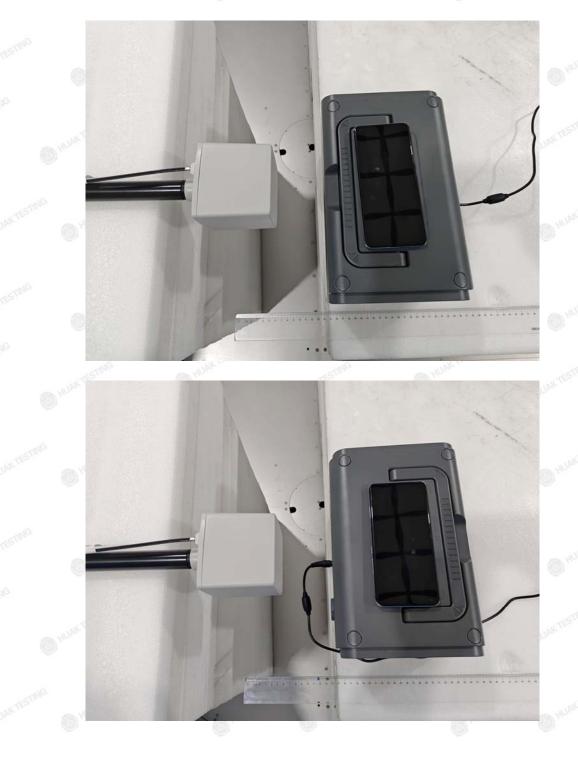
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Photograph of Test

AC Mode:



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DC Mode:



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Report No.: HK2307253251-2E

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******THE END*****

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