



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR230600132302

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1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2306001323PT
FCC ID: 2BE24E1500
Applicant: Jiangsu Jianghuai Engine Co., Ltd
Address of Applicant: No.58 Xiwang South Road, Economy developmental district, Yancheng, 224007, Jiangsu, China
Manufacturer: Jiangsu Jianghuai Engine Co., Ltd
Address of Manufacturer: No.58 Xiwang South Road, Economy developmental district, Yancheng, 224007, Jiangsu, China
Factory: Jiangsu Jianghuai Engine Co., Ltd
Address of Factory: No.58 Xiwang South Road, Economy developmental district, Yancheng, 224007, Jiangsu, China
Equipment Under Test (EUT):
EUT Name: portable power station
Model No.: E1500
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
FCC Rules 47 CFR §2.1091
KDB 680106 D01 RF Exposure Wireless Charging Apps v04
Date of Receipt: 2023-06-29
Date of Test: 2023-06-30 to 2024-01-02
Date of Issue: 2024-01-02

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



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Revision Record			
Version	Description	Date	Remark
00	Original	2024-01-02	/

Authorized for issue by:				
Tested By		Bill Wu		
		Bill Wu/Project Engineer		
Approved By		Parlam Zhan		
		Parlam Zhan / Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply: Input:AC 100-120V 50/60Hz,330W max
AC Output:120VAC,60Hz,1500W
QC3.0 Output:5~20VDC,3A
USB TYPE A Output: 5VDC,2.4A
USB TYPE C Output:5~20VDC,3A,20V,5A
DC Output:12VDC,3A
Cigarette lighter Output:12VDC,10A
Wireless Output:15W max

Test voltage: DC 5V

Operation frequency: 126.6KHz

Antenna type: Inductive Loop Coil Antenna

Modulation Type: Load Modulation

3.2 Description of Support Units

Description	Manufacturer	Model No.
Load Resistance	/	/
Mobilephone	Apple	Iphone 14

3.3 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.



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3.4 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

3.5 Deviation from Standards

None

3.6 Abnormalities from Standard Conditions

None



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ST	N/A	SHEM078-2	2023-05-06	2026-05-05
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	EMC092	2023-08-05	2024-08-04
3	Test Software	Narda	EHP-200TS	N/A	N/A	N/A

5 RF Exposure Test Results

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 20cm

Limit:

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density 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).				

5.1 Operating Environment

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

5.2 EUT Operation

This device has been charge at zero charge, intermediate charge, and full charge. The Maximum value has been recorded in the below table

5.3 Simulation Load Mode

Test modes:	a:Transfer Zone Charging_ The load of each side shall be set at full, half and empty load (15W / 7.5W / 0W) respectively and keep charging continuously.
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5.3.1 Measurement Data

Electric Field Emissions

Test Distance (cm)	Test Position	Test Data (V/m)			Limit /50%Limit (V/m)	Result
		Full Load	Half Load	Empty Load		
10	Side 1	36.25	34.42	35.35	614/307	Pass
	Side 2	35.22	35.14	36.12	614/307	Pass
	Side 3	36.18	33.82	36.64	614/307	Pass
	Side 4	36.44	34.38	35.82	614/307	Pass
	Top	68.61	63.22	66.78	614/307	Pass

Magnetic Field Emissions

Test Distance (cm)	Test Position	Test Data (A/m)			Limit /50%Limit A/m	Result
		Full Load	Half Load	Empty Load		
10	Side 1	0.524	0.386	0.401	1.63/0.815	Pass
	Side 2	0.538	0.378	0.414	1.63/0.815	Pass
	Side 3	0.522	0.380	0.422	1.63/0.815	Pass
	Side 4	0.531	0.372	0.406	1.63/0.815	Pass
	Top	0.784	0.577	0.694	1.63/0.815	Pass

5.4 Mobile phone Load Mode

Test mode:	c:Transfer Zones Charging_The load of each side shall be set at full load (15W) respectively and keep charging continuously.
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5.4.1 Measurement Data

Test Distance (cm)	Test Position	Field Emissions Test Data		Limit / 50% Limit		Result
		V/m	A/m	V/m	A/m	
10	Side 1	36.61	0.528	614 / 307	1.63 / 0.815	Pass
	Side 2	36.56	0.534			Pass
	Side 3	37.14	0.525			Pass
	Side 4	36.62	0.506			Pass
	Top	67.25	0.725			Pass

6 Test photos

Side 1 (10cm)



Side 2 (10cm)



Side 3 (10cm)



Side 4 (10cm)



Top (10cm)



- End of the Report -