



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700285303

Page: 1 of 10

Human Exposure Report

Application No.: SZCR2407002853AT
Applicant: Chongqing X-charge Digital Energy Technology Co., Ltd.
Address of Applicant: No. 9-41 Huaqing Road, Jiulongpo District, Chongqing China 400052
Manufacturer: Chongqing X-charge Digital Energy Technology Co., Ltd.
Address of Manufacturer: No. 9-41 Huaqing Road, Jiulongpo District, Chongqing China 400052
Factory: Chongqing X-charge Digital Energy Technology Co., LTD
Address of Factory: No.99 Hualong Road, Jiulong Industrial Park, Jiulongpo District, Chongqing, P. R. China

Equipment Under Test (EUT):
EUT Name: Portable Power Station
Model No.: EP600-2
FCC ID: 2BES2-EP600MXCA19
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2024-07-22
Date of Test: 2024-08-15 to 2024-08-28
Date of Issue: 2024-08-28

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

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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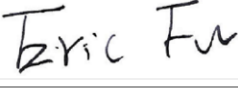
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700285303

Page: 2 of 10

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-28		Original

Authorized for issue by:			
			
		Leo Lai/Project Engineer	
			
		Eric Fu/Reviewer	



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2 Contents

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	Test Facility	5
3.5	Deviation from Standards	5
3.6	Abnormalities from Standard Conditions	5
4	Equipments Used during Test	6
5	Test Results	7
5.1	RF Exposure test	7
5.1.1	E.U.T. Operation	8



3 General Information

3.1 Details of E.U.T.

Tested voltage:	120V~60Hz
Operation frequency:	110kHz to 205kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS 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.
Dummy load	YBZ	Module 2.1	--



3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2025-01-07
2	MAGPY-8H3D+E3D	SPEAG	3061	SEM060-31	2025/04/11
3	MAGPY-DAS	SPEAG	3063	SEM060-32	2025/04/11



5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
 Measurement Distance: 15/20cm
 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
(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).



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700285303

Page: 8 of 10

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone/iWatch at zero charge, intermediate charge, and full charge.



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5.1.2 Measurement Data

The max output power =15W for each coil.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)
			unload	Half load	full load	
360kHz which is the worst case within the operation frequency range	20	Side 1	0.043	0.066	0.072	0.815
		Side 2	0.036	0.068	0.073	
		Side 3	0.038	0.067	0.073	
		Side 4	0.048	0.057	0.065	
		Top	0.039	0.032	0.038	

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)
			zero charge	intermediate charge	full charge	
360kHz which is the worst case within the operation frequency range	20	Side 1	0.087	0.073	0.037	0.815
		Side 2	0.090	0.076	0.037	
		Side 3	0.089	0.074	0.039	
		Side 4	0.081	0.068	0.035	
		Top	0.048	0.040	0.018	



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)
			unload	Half load	full load	
			125 kHz which is the worst case within the operation frequency range	20	Side 1	
Side 2	0.04	0.98	1.30			
Side 3	0.03	0.74	0.98			
Side 4	0.04	1.16	1.54			
Top	0.04	1.08	1.43			

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)
			zero charge	intermediate charge	full charge	
			125 kHz which is the worst case within the operation frequency range	20	Side 1	
Side 2	1.15	0.95	0.56			
Side 3	0.87	0.72	0.43			
Side 4	1.36	1.13	0.66			
Top	1.26	1.04	0.61			

- End of the Report -



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