

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000325903

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Human Exposure Report

SZCR2310003259AT Application No.:

Applicant: SUMEC Hardware & Tools Co., Ltd.

Address of Applicant: No.1 Xinghuo Road, Jiangbei New Area Nanjing Jiangsu P.R.China.

Factory: SHENZHEN UTILITY ENERGY CO., LTD

Address of Factory: Building 3A, Huive Science and Technology Pack, Guanguang Road,

Guangming District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Portable Power Station

Model No.: PB-2400

FCC ID: 2BC6W00003

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2023-10-10

Date of Test: 2024-03-08 to 2024-03-20

Date of Issue: 2024-03-21

Test Result: Pass*

Keny. xu **EMC Laboratory Manager**



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^{*} In the configuration tested, the EUT complied with the standards specified above



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-03-21		Original				

Authorized for issue by:		
	Clincert Chen	
	Vincent Chen/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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3 **General Information**

3.1 Details of E.U.T.

Power Supply:	AC Input: 120V~, 60 Hz, 15A Max.(3h),12.5 A Max. Continuous / Continue,
	1500 W Max.
	DC Input: 12-60Vdc, 800W Max. MPPT.
	Battery Capacity: 51.2Vdc, 37.5Ah, 1920Wh
	Output 1: 1x Car cigarette: 13.6 Vdc, 10A, 120W Max.; 2x DC5521: 13.6Vdc,
	10A, 120W Max.
	Output 2: 2x USB C-PD:100W (5Vdc / 9Vdc/ 12Vdc /15Vdc, 3A; 20Vdc, 5A)
	4x USB A: 5Vdc, 3A/9Vdc, 2A;12Vdc,1.5A, 18W Max.
	Output 3: 4x 120V~, 60Hz; Continuous/Continue 2400W Peak/Crete 4800W;
	Bypass mode: 120V~, 60Hz, 1500W Max.
	Output 4: 2x Wireless charge 15W
	Output 5: 2x Bluetooth Speaker 10W
	Output 6: 1x LED Light 10W
Operation frequency:	114.2kHz to 144 kHz(for 2 outlet); 114.4 kHz to 143.8kHz(for 1 outlet)
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.
Load Resistor	SGS	N/A	REF. No.SEA06A00
Load Resistor	SGS	BX7-14	REF. No.SEA37A00
Mobile Phone	HUAWEI	NOH-AN00	REF. No.SEA16C01



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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.



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Equipments Used during Test 4

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	MAGPy	SEM060-31	2024-11-14
3	MAGPy-DAS	SPEAG	MAGPy	SEM060-32	2024-11-14



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Test Results 5

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

Remark: According to KDB publication 680106 section 3, the separation distance

shall be measured from the geometric center of the probe head to the edge

of the device, so test distance as above.

The EUT is considered as a mobile device and is evaluated at a distance of

20 cm

Limit:

Frequency range (MHz)			Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3-3.0 614 1.63 *(100)									
3.0-30	1842/f	4.89/f	*(900/f²)	6					
30-300	61.4	0.163	1.0	6					
300-1500	/	/	f/300	6					
1500-100,000	/	/	5	6					
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure						
0.3-1.34	614	1.63	*(100)	30					
1.34-30	824/f	2.19/f	*(180/f²)	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

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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^{*=}Plane-wave equivalent power density

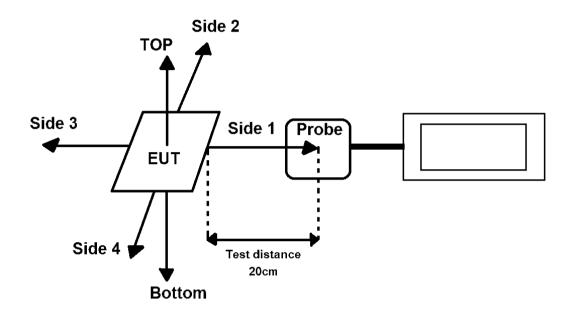


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E.U.T. Operation 5.1.1



5.1.2 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C 53.4 % RH Atmospheric Pressure: 1003 Mbar Humidity:

5.1.3 **Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode_Keep the EUT charging(15W) /2 outlet
Pre-scan	01	Charge mode_Keep the EUT charging(10W) /2 outlet
Pre-scan	02	Charge mode_Keep the EUT charging(5W) /2 outlet
Pre-scan	03	Charge mode_Keep the EUT charging(15W) /1 outlet
Pre-scan	04	Charge mode_Keep the EUT charging(10W) /1 outlet
Pre-scan	05	Charge mode_Keep the EUT charging(5W) /1 outlet

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



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5.1.4 Measurement Data

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
127 kHz		Side 1	0.032	0.033	0.035		
which is the worst		Side 2	0.044	0.039	0.043		
case	20	Side 3	0.049	0.049	0.054	0.815	0.163
within the	within the	Side 4	0.042	0.046	0.052		
operation frequency range		Тор	0.048	0.092	0.101		

Operation frequency (cm)		Toot	Probe Measure Result(A/m)			50 % Limit	10 % Limit
	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)	
118 kHz		Side 1	0.037	0.031	0.016		
which is the worst		Side 2	0.049	0.041	0.022		
case	20	Side 3	0.067	0.056	0.028	0.815	0.163
within the	ne	Side 4	0.053	0.044	0.024		
operation frequency range	Тор	0.122	0.102	0.053			

Electric Field Emissions

Operation frequency					ult	50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
127 kHz		Side 1	0.039	0.121	0.160		
which is the worst		Side 2	0.044	0.175	0.230		
case yithin the 20	20	Side 3	0.048	0.229	0.301	307	61.4
	Side 4	0.043	0.168	0.226	307	61.4	
operation frequency range		Тор	0.046	0.324	0.429		



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Operation	Test Distance	Toot	Probe Measure Result(V/m)			50 % Limit	10 % Limit
Operation frequency (cm)	Test Position	zero charge	intermediate charge	full charge	(V/m)	(V/m)	
118 kHz	Side 1	0.141	0.115	0.072			
which is the worst		Side 2	0.202	0.168	0.094		
case	case within the 20	Side 3	0.265	0.221	0.131	307	61.4
		Side 4	0.199	0.162	0.090		
operation frequency range		Тор	0.378	0.313	0.181		

Simultaneous transmitting

 Σ rations of simultaneous transmitting: BT + 2.4GHz WiFi+ WPC as the following table:

Ratio of EIRP power of 2.4GHz WiFi	Ratio of EIRP power of BT	Ratio of Magnetic Field Emissions of WPC	Total ratios of simultaneous transmitting	Limit	Result
0.024	0.0006	0.15	0.1746	1.0	PASS

Note: For BT EIRP Data is based on the RF Test Report BTL-FCCP-1-2006H014.

For 2.4GHz WiFi EIRP Data is based on the RF Test Report R2106A0492-R1.

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

Photographs- RF exposure Setup photos 6

Refer to Appendix_RF Exposure Setup Photos for SZCR2310003259AT

- End of the Report -



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