Human Exposure Report

Application No.:	SZEM2101001078CR
Applicant:	Sky Intelligent Investment Limited
Address of Applicant:	RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL
Manufacturer:	Sky Intelligent Investment Limited
Address of Manufacturer:	RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL
Factory:	Huizhou Golden lake Industrial Co., Ltd
Address of Factory:	Dongjiang Industrial Estate, Shuikou Street, Huicheng District, Huizhou City, Guangdong Province,516005
Equipment Under Test (EUT):	
EUT Name:	Portable Power Station
Model No.:	SPS-500-01, B08ZHYL6CV ♣
♣	Please refer to section 3 of this report which indicates which model was actual tested and which were electrically identical.
Trade Mark:	SHELL
FCC ID:	2AZXL-SPS-500-01
Standards:	47 CFR PART 1, Subpart I, Section 1.1310 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt:	2021-01-26
Date of Test:	2021-04-07 to 2021-04-15
Date of Issue:	2021-04-15
Test Result :	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		*2021-04-15*		*Original*

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

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3 General Information

3.1 Details of E.U.T.

Power supply:	Cell Capacity: 4500mAh Rated Capacity: 27000mAh (21.6V/583Wh) DC Input：11-30V/5A (65W Max) USB-C Input/ Output：5V3A/ 9V3A/ 15V3A/ 20V3A (60W Max) AC Output：120V~ 10A, 60Hz, 500W USB-A Output: 5V/2.4A (12W Max per port) USB-A QC Output:5V3A/ 9V2A/ 12V1.5A (18W Max) DC Output: 12V/5A (per port) Car Charger Output: 12V/10A DC + Car Charger Output: 120W Max Wireless Charging Output: 5V/3A (15W Max) Adapter Model: S065PP2400270 Input: 100-240V~50/60Hz 1800mA Output: DC 24V 2700mA
Cable(s):	AC cable: 120cm unshielded DC cable: 150cm unshielded with one core Type-C cable: 120cm shielded
Operation frequency:	111.0kHz to 153.8kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Declaration of EUT Family Grouping:

Model No.: SPS-500-01, B08ZHYL6CV

Only the model SPS-500-01 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name.

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3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
E-loading	SGS	N/A	REF. No.SEA42A00
DC power supply	XANTREX	XFR 100-12	REF. No.SEA27A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA06A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA37A00
Load Resistor	SGS	N/A(USB-A)	REF. No.SEA07A00
Load Resistor	SGS	N/A(Type-C)	REF. No.SEA38A00
Adapter	ZENDURE	ZD4P90DPD	REF. No.SEA056720

3.3 Test modes description:

"**Charge_ Keep the EUT charging(5/7.5/10/15W)**" means the EUT output 5/7.5/10/15W via WPT port.

"**Discharging mode_Keep all output ports in discharging mode**" means the EUT working in discharging mode via all DC output ports (DC export/USB-A export/Type-C export/car charger export) for load resistors; all AC output ports for light bulbs.

Please refer to Setup Photos for details.

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3.4 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, Shenzhen, Guangdong,China 518057.

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

No tests were sub-contracted.

3.5 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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **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.

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-12-24
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-26

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	02	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	03	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	04	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	05	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply), while keep all output ports in discharging mode.
Pre-scan	06	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	07	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	08	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	09	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply), while keep all output ports in discharging mode.
Pre-scan	10	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.

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Pre-scan	11	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply), while keep all output ports in discharging mode.
Pre-scan	14	Charge mode_Keep the EUT charging(5W)
Pre-scan	15	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	16	Charge mode_Keep the EUT charging(10W)
Final test	17	Charge mode_Keep the EUT charging(15W)
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	23	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	24	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	25	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	26	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	27	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	28	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	29	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	30	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.
Pre-scan	31	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all

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		output ports in discharging mode.
Pre-scan	32	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	33	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.

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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: 15cm

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).

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 at zero charge, intermediate charge, and full charge.

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5.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =15W;Calculation of resistor value=1.7Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
133.6kHz	15	Side 1	0.0419	0.815
		Side 2	0.0428	0.815
		Side 3	0.0539	0.815
		Side 4	0.0411	0.815
		Top	0.0331	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
133.6 kHz	15	Side 1	0.0451	0.0391	0.0334	0.815
		Side 2	0.0472	0.0380	0.0343	0.815
		Side 3	0.0495	0.0394	0.0363	0.815
		Side 4	0.0390	0.0378	0.0342	0.815
		Top	0.0299	0.0280	0.0235	0.815

- End of the Report -

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