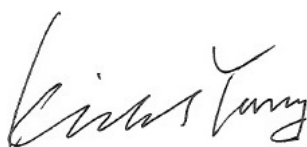


Human Exposure Report

Application No.: FYFR2203000016AT
Applicant: Sky Intelligent Investment Limited
Address of Applicant: RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL, HongKong China
Manufacturer: Sky Intelligent Investment Limited
Address of Manufacturer: RM10,6/F KWONG SANG HONG CTR 151-153 HOI BUN RD KWUN TONG KL, HongKong China
Factory: Huizhou Golden lake Industrial Co.,Ltd
Address of Factory: Dongjiang Industrial Estate, Shuikou street,Huicheng District,Huizhou City,Guangdong Province,P.R.China
Equipment Under Test (EUT):
EUT Name: Portable Power Station
Model No.: SPS-700-01
Trade Mark: SHELL
FCC ID: 2AZXL-SPS-700-01
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-03-07
Date of Test: 2022-03-08 to 2022-04-26
Date of Issue: 2022-04-28

Test Result :	Pass*
----------------------	--------------

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



Kidd Yang
EMC Laboratory Manager



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYFR220300001603

Page: 2 of 12

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-28		Original

Authorized for issue by:				
				
		Tree Zhan/Project Engineer		
				
		Winkey Wang/Reviewer		



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Shenzhen Branch

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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 (120W Max) USB-C Input/ Output: 5V3A/ 9V3A/ 15V3A/ 20V3A (60W Max) AC Output: 120V~ 10A, 60Hz, 700W continuous, 1000W surge peak 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: 15W Max Adapter Model: S120UO2400500 Input: 100-240V~50/60Hz 1.8A Output: DC 24.0V 25.0A 120.0W Max.
Cable(s):	AC cable: 120cm unshielded DC cable: 150cm unshielded with one core Car charger cable: 120cm shielded
Operation frequency:	114.4KHz-145.6KHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna



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3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
E-loading	SGS	N/A	REF. No.SEA42A00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P01
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA1M00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Type-C adapter	XIAOMI	AD651	Client supply
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
DC cables	N/A	N/A	Client supply
Type-C cable	N/A	N/A	Client supply



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

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

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

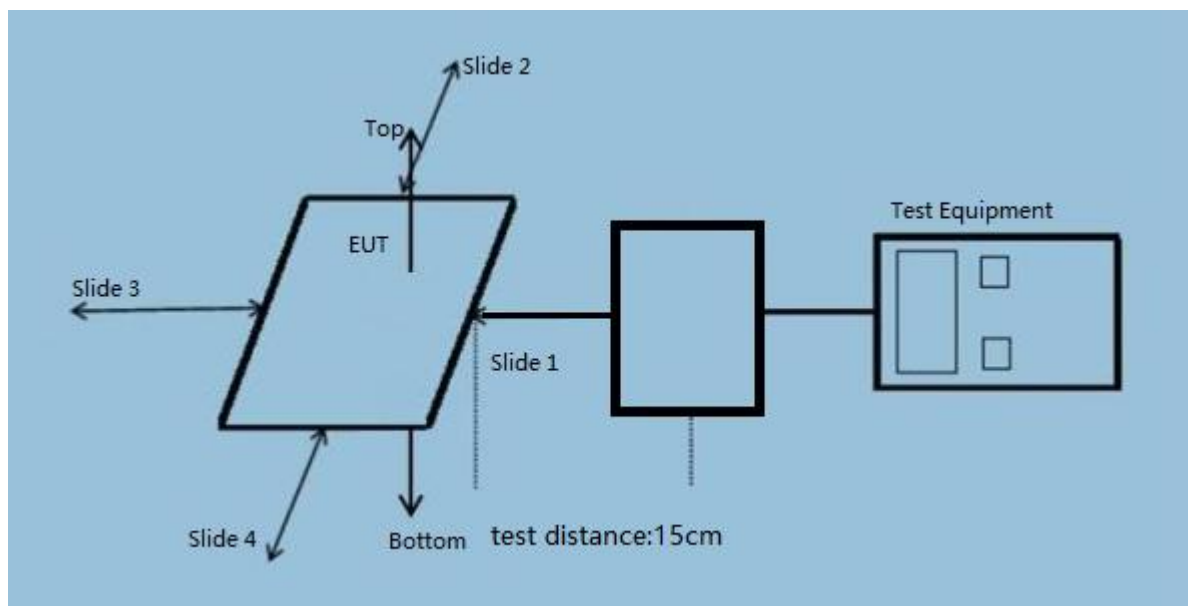
None.



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3.7 5.5 Test Block Diagram



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	2022/7/12
2	Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	180ZX00603	2023-01-23



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5 Test Mode Description

Pre-scan	07	Charge mode_Keep the EUT charging(5W)
Pre-scan	08	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(10W)
Final test	10	Charge mode_Keep the EUT charging(15W)
Pre-scan	11	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	12	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	13	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	14	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Adapter supply).
Pre-scan	15	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	16	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	17	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	18	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(Type-C port supply).
Pre-scan	19	Charge+Charging mode_Keep the EUT charging(5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	20	Charge+Charging mode_Keep the EUT charging(7.5W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	21	Charge+Charging mode_Keep the EUT charging(10W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	22	Charge+Charging mode_Keep the EUT charging(15W) and keep the battery of the EUT in charging(DC port supply).
Pre-scan	23	Charge+Discharging mode_Keep the EUT charging(5W) and keep all output ports in discharging mode.
Pre-scan	24	Charge+Discharging mode_Keep the EUT charging(7.5W) and keep all output ports in discharging mode.
Pre-scan	25	Charge+Discharging mode_Keep the EUT charging(10W) and keep all output ports in discharging mode.
Pre-scan	26	Charge+Discharging mode_Keep the EUT charging(15W) and keep all output ports in discharging mode.



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Report No.: FYFR220300001603

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Pre-scan	27	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	28	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	29	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	30	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	31	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	32	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	33	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	34	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	35	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.
Pre-scan	36	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	37	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	38	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.



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6 Test Results

6.1 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).

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with mobile



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Fuyong lab, Xinlong TechnoPark, Fenggang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



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phone at zero charge, intermediate charge, and full charge.



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Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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6.1.2 Measurement Data

The max output power =15W

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		
128 kHz which is the worst case within the operation frequency range	15	Side 1	0.110	0.127	0.149	0.815	0.163
		Side 2	0.116	0.133	0.156		
		Side 3	0.110	0.122	0.149		
		Side 4	0.122	0.140	0.166		
		Top	0.132	0.152	0.179		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
124 kHz which is the worst case within the operation frequency range	15	Side 1	0.152	0.127	0.101	0.815	0.163
		Side 2	0.164	0.138	0.110		
		Side 3	0.155	0.130	0.104		
		Side 4	0.171	0.144	0.115		
		Top	0.188	0.158	0.126		

- End of the Report -



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