PSE TEST REPORT
For

Dongguan Pinguan sports technology Co., LTD

Smart Li-Polymer Battery Pack

Test Model: PG-8000

Serial Model No.: N/A

Prepared for	:	Dongguan Pinguan sports technology Co., LTD
Address	:	Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Guangdong Province
Prepared by	:	Shenzhen AOCE Electronic Technology Service Co., Ltd
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Date of receipt of test sample	:	July 18, 2025
Number of tested samples	:	1
Date of Test	:	July 18, 2025 ~ July 28, 2025
Date of Report	:	July 28, 2025

PSE TEST REPORT
J55014-1 (H27)
Requirements for Household Appliances, Electric Tools and Similar Apparatus

Report Reference No. .....:	**AOC250728101E**
Date Of Issue.....:	July 28, 2025
Testing Laboratory Name.....:	**Shenzhen AOCE Electronic Technology Service Co., Ltd**
Address..... :	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Testing Location/ Procedure... :	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name..... :	**Dongguan Pinguan sports technology Co., LTD**
Address..... :	Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Guangdong Province
Test Specification:	
Standard.....:	J55014-1 (H27)

Test item description.....:	**Smart Li-Polymer Battery Pack**
Trade Mark.....:	N/A
Test Model..... :	PG-8000
Ratings.....:	5V, 2A, 10W, Batttery 3.85V 8000mAh
Result .....:	**PASS**

Compiled by:	**Supervised by:**	**Approved by:**
David Liu	Kevin Huang	Jackson Fang
David Liu/ File administrators	Kevin Huang/ Technique principal	Jackson Fang/ Manager

PSE -- TEST REPORT

Test Report No. : AOC250728101E	July 28, 2025 Date of issue

Test Model.....	:	PG-8000
EUT.....	:	Smart Li-Polymer Battery Pack
Applicant.....	**:**	**Dongguan Pinguan sports technology Co., LTD**
Address.....	:	Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Guangdong Province
Telephone.....	:	/
Fax.....	:	/
Manufacturer.....	**:**	**Dongguan Pinguan sports technology Co., LTD**
Address.....	:	Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Guangdong Province
Telephone.....	:	/
Fax.....	:	/
Factory.....	**:**	/
Address.....	:	/
Telephone.....	:	/
Fax.....	:	/

Test Result according to the standards on page 5:	**PASS**

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Test Report Description

Page

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	**Standard**	**Limits**	**Results**
Conducted disturbance at mains terminals	J55014-1 (H27)	CLASS B	PASS
Clicks	J55014-1 (H27)	CLASS B	PASS
Disturbance Power	J55014-1 (H27)	CLASS B	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:		
Mode 1	Working	Record

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT	**:** Smart Li-Polymer Battery Pack
Trade Mark	**:** N/A
Test Model	: PG-8000
Serial Model No.	: PG-8000
Power Supply	: 5V, 2A, 10W, Batttery 3.85V 8000mAh
EUT Clock Frequency	**:** ≤108MHz

2.2.Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the AOCE quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.3.Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

（1）Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

（2）The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1.Conducted Disturbance

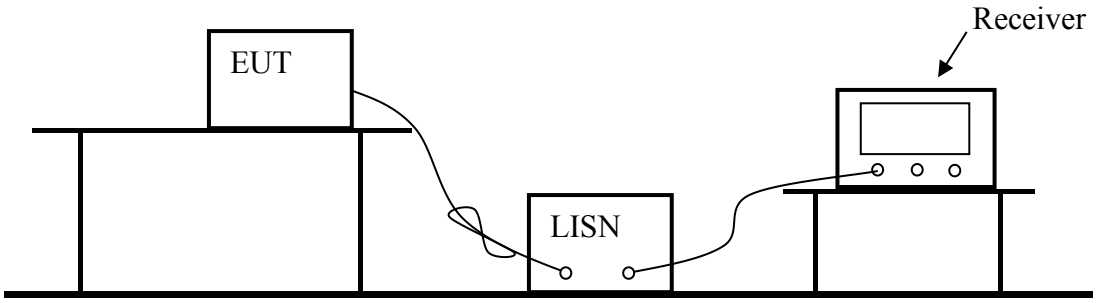
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2025/04/25
2	10dB Attenuator	SCHWARZBECK	MTS-IMP136	261115-001-0032	2025/04/25
3	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2025/04/25
4	EMI Test Software	AUDIX	E3	N/A	N/A

3.2.Disturbance Power

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2025/04/25
2	Absorbing clamp	ROHDE & SCHWARZ	MDS 21	4033	2025/04/25
3	EMI Test Software	AUDIX	E3	N/A	N/A
4	6dB Attenuator	N/A	N/A	50FP-006-H3B	2025/04/25

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1.Block Diagram of Test Setup



4.2.Power Line Conducted Emission Limits

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.35	66.0 ~ 56.0 *	59.0 ~ 46.0 *
0.35 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Remark: * means decreasing linearly with logarithm of frequency.

4.3.EUT Configuration on Test

The following equipments are installed on Conducted Emission Measurement to meet
J 55014-1 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT as shown on Section 4.1.

4.4.2.Turn on the power of all equipments.

4.4.3.Let the EUT work in measuring mode (1) and measure it.

4.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through a Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the J 55014-1 regulations during conducted emission measurement.

The bandwidth of the field strength meter is set at 9kHz.

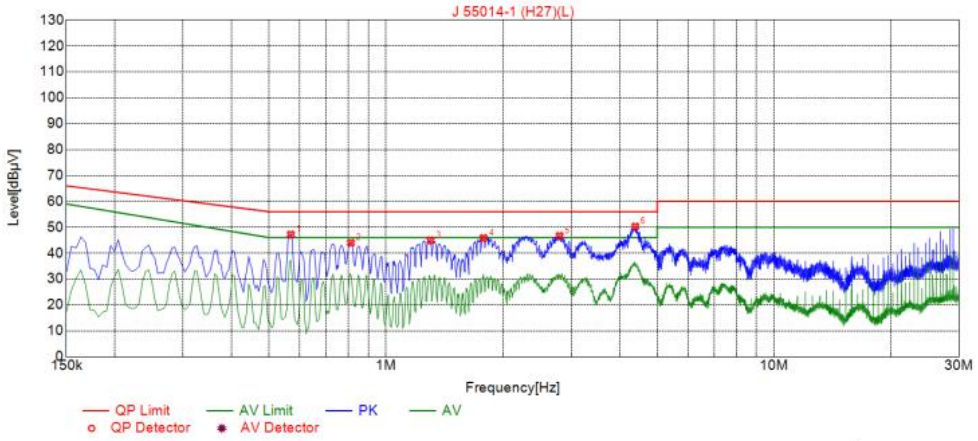
The frequency range from 150kHz to 30MHz is investigated. The scanning waveform please refer to the next page.

4.6.Test Results

PASS.

The frequency range 150kHz to 30MHz is investigated.

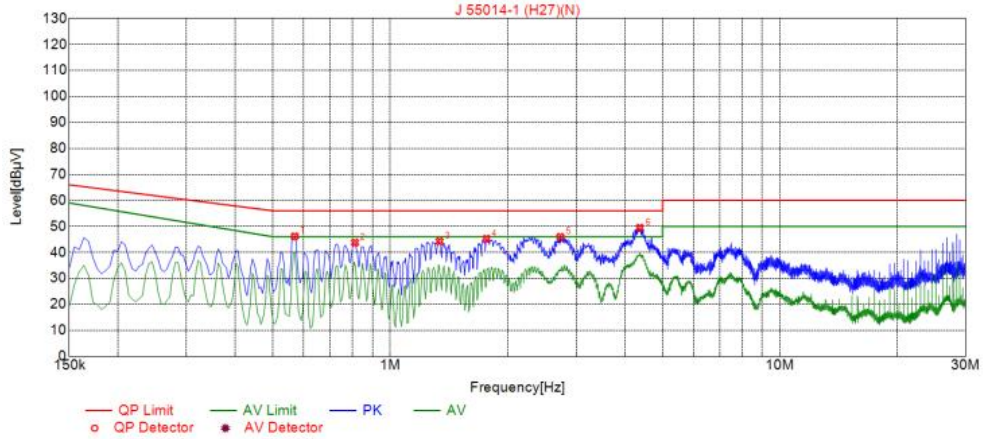
Test Model	PG-8000	**Test Mode**	Mode 1
Environmental Conditions	24.3℃, 55.7% RH	**Test Engineer**	Andy
Pol	Line		



Suspected List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5685	47.21	19.79	56.00	8.79	27.42	PK	L
2	0.8115	43.99	19.70	56.00	12.01	24.29	PK	L
3	1.3020	44.91	19.89	56.00	11.09	25.02	PK	L
4	1.7835	45.83	20.08	56.00	10.17	25.75	PK	L
5	2.8005	46.66	20.25	56.00	9.34	26.41	PK	L
6	4.3890	50.27	20.36	56.00	5.73	29.91	PK	L

Test Model	PG-8000	**Test Mode**	Mode 1
Environmental Conditions	24.3℃, 55.7% RH	**Test Engineer**	Andy
Pol	Neutral		



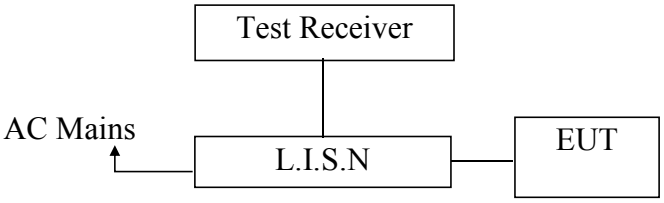
Suspected List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5685	46.17	19.75	56.00	9.83	26.42	PK	N
2	0.8115	43.76	19.76	56.00	12.24	24.00	PK	N
3	1.3380	44.20	19.84	56.00	11.80	24.36	PK	N
4	1.7655	45.23	19.91	56.00	10.77	25.32	PK	N
5	2.7330	45.96	20.05	56.00	10.04	25.91	PK	N
6	4.3710	49.45	20.20	56.00	6.55	29.25	PK	N

Note: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss
Level=Test receiver reading + correction factor

5. CLICKS MEASUREMENT

5.1.Block Diagram of Test Setup



(EUT: Smart Li-Polymer Battery Pack)

5.2.Clicks Measurement Standard and limit

5.2.1.Test Standard

J55014-1 (CISPR 14-1: 2016)

5.2.2.Test Limit

According to standard J 55014-1, if click rate (N) less 5/min and the time of this discontinuous disturbances does not exceed 10ms, then the limit value are omitted.

5.3.EUT Configuration on Test

The configuration of EUT is same as Section 2.1.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT as shown Section 5.1.
5.4.2.Turn on the power of all equipments.
5.4.3.After that, let EUT work in test mode (On/Off) and measure it.

5.5.Test Procedure

This test is done when switch operations in thermostatically controlled appliances, automatic program controlled machines and other electrically controlled or operated appliances may generate discontinuous disturbance (Click). The measurement of disturbance shall be performed at the following restricted number of frequencies: 150kHz, 500kHz, 1.4MHz and 30MHz. At each frequency, for appliances which stop automatically, duration of the minimum number of complete programs necessary to produce 40 counted clicks or, where relevant, 40 counted clicks have not been produced, the test is stopped at the end of the program in course. The relevant click rate N. The appliance under test shall be deemed to comply with the limit if not more than a quarter of the number of the counted click registered during the observation time.

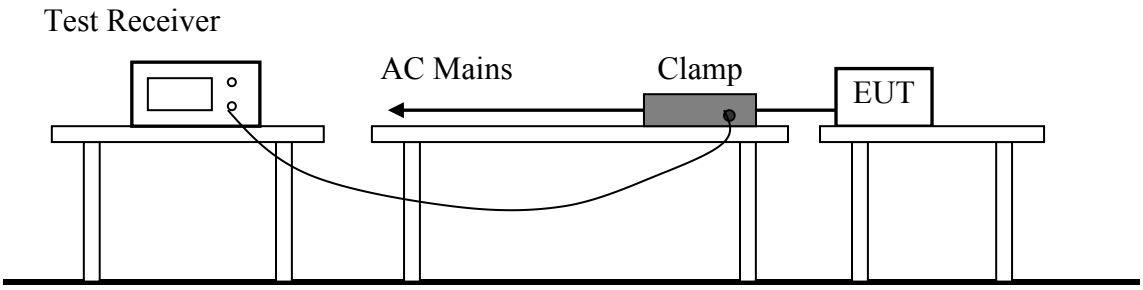
5.6.Test Result

PASS.

The click rate (N=1/2.1=0.48<5) of the EUT is less than 5/min and the time of this discontinuous disturbances (△T=4ms<10ms) does not exceed 10ms. According to
J 55014-1, the limit values are omitted.

6. DISTURBANCE POWER MEASUREMENT

6.1.Block Diagram of Test Setup



6.2.Test Standard

J55014-1 (CISPR 14-1: 2016)

6.3.Disturbance Power Limits

All emanations from devices or system including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified below:

Frequency MHz	Limits dB(pW)	
	Quasi-peak Value	Average Value
30 ~ 300	45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45

6.4.EUT Configuration on Test

The J 55014-1 Regulations test method must be used to find the maximum emission during radiated emission measurement. The configuration of the EUT is the same as used in conducted emission measurement.

6.5.Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.4 except the test set up replaced as Section 6.1.

6.6.Test Procedure

The EUT is placed on the plane 0.8m high above the ground by insulating support and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the field strength meter is set at 120kHz.

All the test results are listed in Section 6.7. The scanning waveform please refer to the next page.

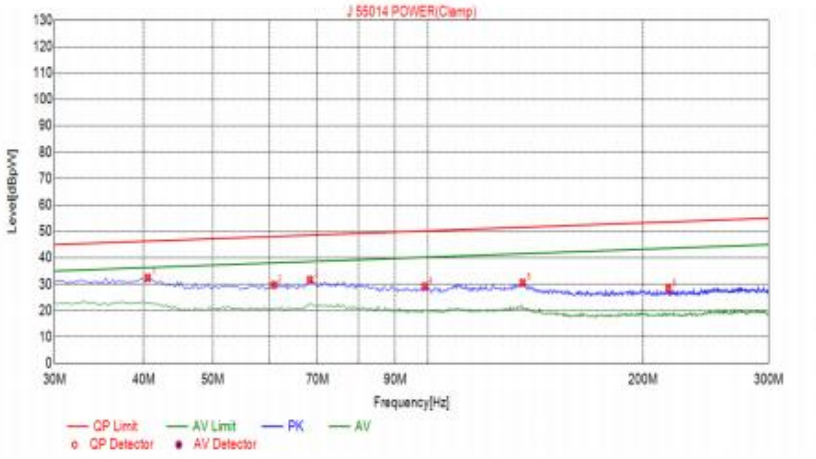
6.7.Test Results

PASS.

The frequency spectrum from 30 MHz to 300 MHz is investigated.

Test Model	PG-8000	**Test Mode**	Mode 1
Environmental Conditions	23.8℃, 53.9% RH	**Test Engineer**	Andy
Pol	/		

Test Graph

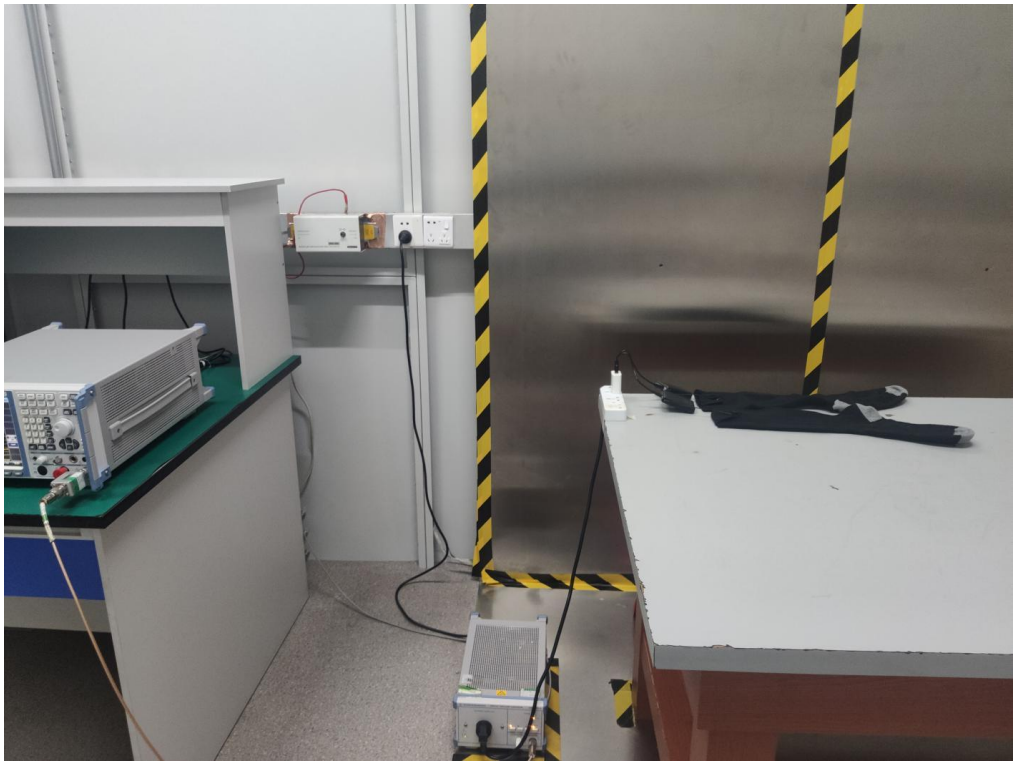


Suspected List

NO.	Freq. [MHz]	Level[dBpw]	Factor [dB]	Reading [dBpV]	Limit [dBpw]	Margin [dB]	Detector	Type
1	40.5405	32.47	7.56	24.91	46.31	13.84	PK	Clamp
2	60.8108	29.72	5.72	24.00	48.07	18.35	PK	Clamp
3	68.3784	31.72	6.40	25.32	48.58	16.86	PK	Clamp
4	98.9189	29.16	4.70	24.46	50.18	21.02	PK	Clamp
5	135.6757	30.57	5.74	24.83	51.55	20.98	PK	Clamp
6	217.0270	28.31	2.85	25.46	53.59	25.28	PK	Clamp

7. PHOTOGRAPHS OF TEST SETUP

7.1.Photo of Power Line Conducted Measurement



8.EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Fig. 1

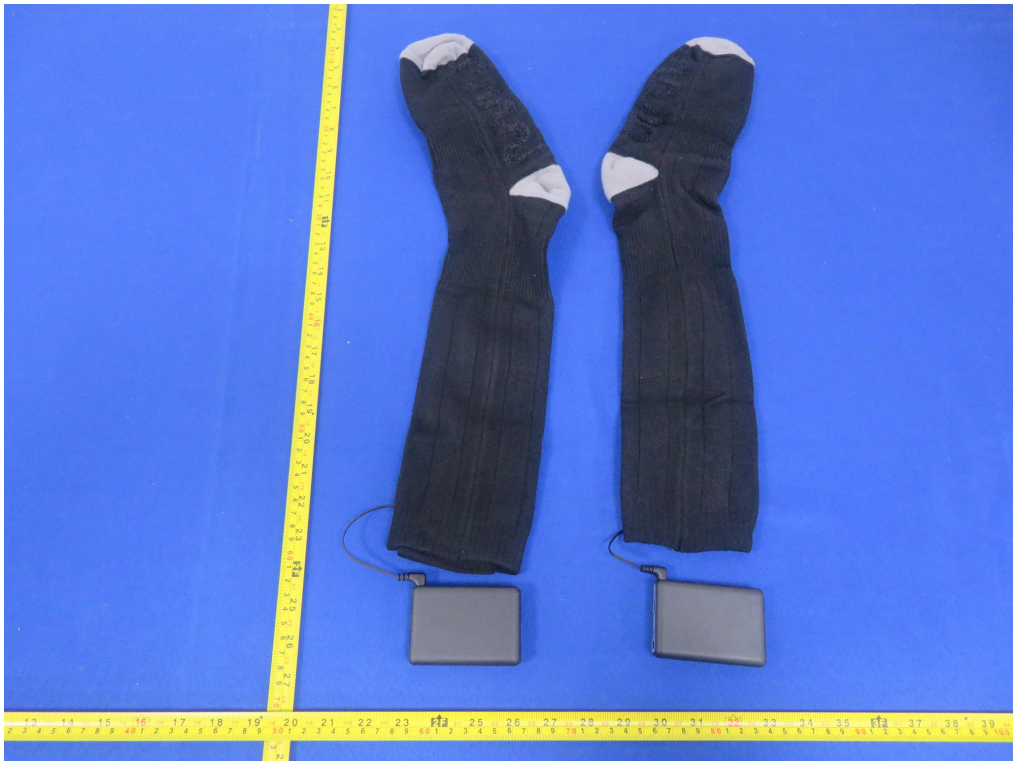


Fig. 2

Fig. 3

Fig. 4

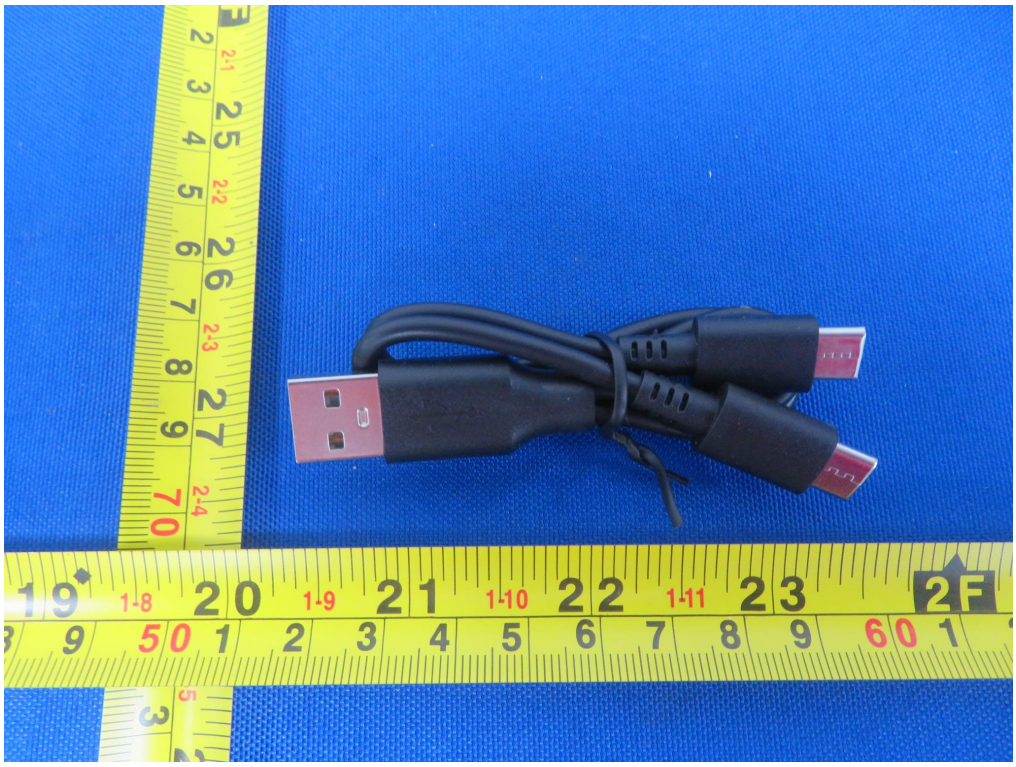


Fig.5

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