FCC TEST REPORT For

Dongguan Pinguan sports technology Co., LTD

Smart Li-Polymer Battery Pack

Test Model: PG-8500

Additional 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.,

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Date of receipt of test sample : July 18, 2025

Number of tested samples : 1

Serial number : Prototype

Date of Test : July 18, 2025 - July 29, 2025

Date of Report : July 29, 2025

FCC TEST REPORT FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No. AOC250729102F

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

Address...... Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town,

Dongguan City, Guangdong Province

Test Specification:

Standard..... FCC 47 CFR Part 15 Subpart B, Class B(SDoC),

ANSI C63.4 -2014

Test Report Form No...... AOCEMC-1.0

TRF Originator.....: Shenzhen AOCE Electronic Technology Service Co., Ltd.

Master TRF..... Dated 2011-03

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Test Item Description.....: Smart Li-Polymer Battery Pack

Trade Mark : N/A

Model/ Type Reference.....: PG-8500

Result Pass

Compiled by: Supervised by: Approved by:

David Lik Kevin Huang Jackson Fang

David Liu/ File administrators Kevin Huang/ Technique principal Jackson Fang/ Manager

FCC -- TEST REPORT

Test Report No.: AOC250729102F July 29, 2025

Date of issue

Type / Model..... : PG-8500 EUT.....: Smart Li-Polymer Battery Pack Applicant.....:: Dongguan Pinguan sports technology Co., LTD 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.....:: Dongguan Pinguan sports technology Co., LTD Town, Dongguan City, Guangdong Province Telephone.....: : / Fax....: : /

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

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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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	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS		
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS		
N/A is an abbreviation for Not Applicable.					

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : Smart Li-Polymer Battery Pack

Model Number : PG-8500

Power Supply : 5V, 2A, 10W, Battlery 3.85V 8500mAh

2.2.Description of Support Device

Name	Manufacturers	M/N	S/N

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2.3.Description of Test Facility

Site Description

EMC Lab. :

2.4. 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 AOC 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.

2.5. Measurement Uncertainty

Test Item		Parameters	Expanded	Expanded
			Uncertainty (Ulab)	Uncertainty
				(Ucispr)
		Level accuracy	2.63 dB	3.8 dB
Conducted Emission	:	(9kHz to 150kHz) (150kHz	2.35 dB	3.4 dB
		to 30MHz)		
Power Disturbance	:	Level accuracy	±2.90dB	±4.5 dB
		(30MHz to 300MHz)		
Radiated Emission	:	Level accuracy	±3.68 dB	N/A
		(9kHz to 200MHz)		
Radiated Emission		Level accuracy	±3.48 dB	±5.3 dB
		(200Hz to 1000MHz)		
Radiated Emission		Level accuracy	±3.90 dB	±5.2 dB
		(above 1000MHz)		

⁽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%.

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3.TEST RESULTS

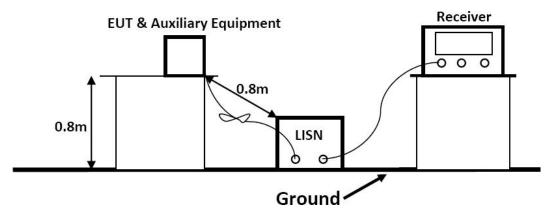
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2025/04/24	2026/04/23
3	Artificial Mains	R&S	ENV216	101288	2025/04/24	2026/04/23
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-0 01-0032	2025/04/24	2026/04/23
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2025/04/24	2026/04/23

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

	Frequenc	y	Limit (dB V)		
	(MHz)		Quasi-peak Level	Average Level	
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *	
0.50	~	5.00	56.0	46.0	
5.00	~	30.00	60.0	50.0	

NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.1.5. Operating Condition of EUT

- 3.1.5.1. Setup the EUT as shown on Section
- 3.1.5.2. Turn on the power of all equipments.
- 3.1.5.3.Let the EUT work in measuring Working and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

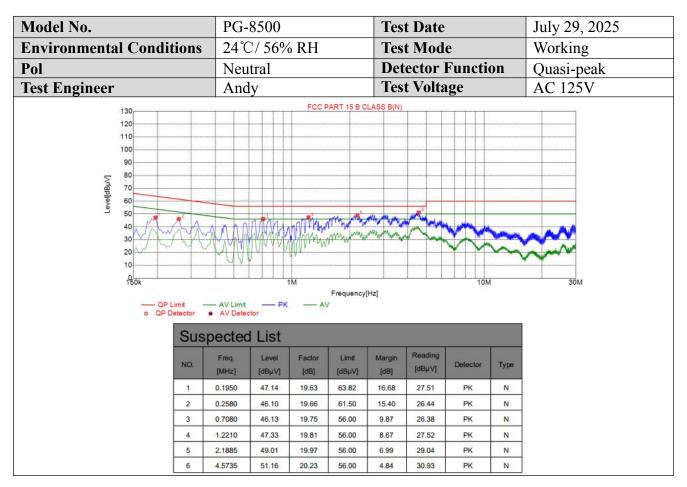
The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.

Model No.	Po	G-8500	PG-8500		Test	t Date			July 29, 2025
Environmental Condit	ions 24	24°C/56% RH		Test	Test Mode			Working	
Pol	Li	Line		Det	ector l	Functio	on	Quasi-peak	
Test Engineer	A	ndy			Test	t Volta	ge		AC 125V
130 120 110 100 90 80 70 60 60 60 150k		mit — PK	MATTER STATE	Frequency		,	100	*	30M
	Suspect	ed List							
	NO. Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
[1 0.1905	47.14	19.78	64.01	16.87	27.36	PK	L	
	2 0.7080	2000000	19.65	56.00	9.82	26.53	PK	L	
-	3 1.2210		19.86	56.00	7.94	28.20	PK	L	
-	4 1.6710 5 2.1210	0.0000	20.03	56.00 56.00	6.93	29.04	PK PK	L	
	6 4.5015	2000000	20.16	56.00	3.99	31.64	PK PK	L	



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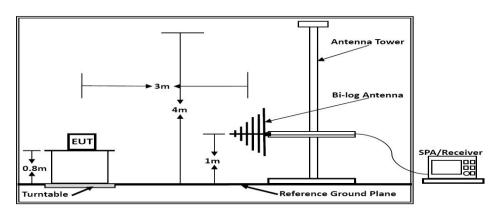
3.2. Radiated emission Measurement

3.2.1Test Equipment

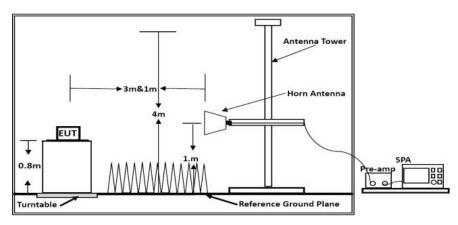
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2025/04/24	2026/04/23
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-192 5	2025/04/24	2026/04/23
4	EMI Test Receiver	R&S	ESR 7	101181	2025/04/24	2026/04/23
5	Broadband Preamplifier	/	BP-01M18G	P190501	2025/04/24	2026/04/23

3.2.2.Block Diagram of Test Setup



Below 1GHz



Above 1GHz

3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT		
MHz	Meters	V/	dB(V)/	
		m	m	
30 ~ 88	3	100	40	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46	
960 ~ 1000	3	500	54	

Remark: (1) Emission level (dB) $V = 20 \log \text{ Emission level}$ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Limits for Radiated Emission Above 1GHz					
Frequency	Distance	Peak Limit	Average Limit		
(MHz)	(Meters)	$(dB\mu V/m)$	(dBµV/m)		
Above 1000	3	74	54		
***Note: The lower limit applies at the transition frequency.					

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

- 1.1.1.1. Setup the EUT as shown in Section 3.2.2.
- 3.2.5.2.Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 300kHz.

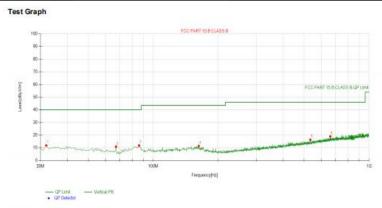
The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

PASS

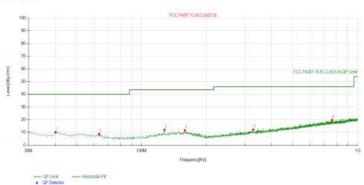
The scanning waveforms please refer to the next page.

Model No.	PG-8500	Test Date	July 29, 2025
Environmental Conditions	24℃/ 56% RH	Test Mode	ON
Pol	Vertical	Detector Function	Quasi-peak
Test Engineer	Andy	Distance	3m



Suspected List Suspected List Reading Freq. Level Limit Margin Height [MHz] [dB] [dBµV/m] [dBµV/m] [dBµV/m] [dB] [7] 31.940647 -17.26 29.17 11.91 40.00 28.09 100 11 Vertical 67.195732 -19.18 30.06 10.88 40.00 29.12 100 11 Vertical 32.77 11.92 85.955318 -20.85 40.00 100 137 28.08 Vertical 162.61087 -16.22 27.68 11.46 43.50 32.04 100 339 Vertical 534.24474 -13.34 29.74 16.40 46.00 29.60 100 Vertical 661.03367 30.10 18.99 -11.11 46.00 27.01 100 197 Vertical

Model No.	PG-8500	Test Date	July 29, 2025		
Environmental Conditions	24℃/ 56% RH	Test Mode	ON		
Pol	Horizontal	Detector Function	Quasi-peak		
Test Engineer	Andy	Distance	3m		
Test Graph					
100 FCC PART 13 B CIASS B					



	Su	5	Pŧ	9C	te	a	u	51	
C200	2000	30	88	22	300	88	21		i

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [*]	Polarity
1	40.026676	-16.41	26.58	10.17	40.00	29.83	100	262	Horizontal
2	63.637879	-18.46	27.13	8.67	40.00	31.33	100	199	Horizontal
3	127.67922	-17.48	29.47	11.99	43.50	31.51	100	149	Horizontal
4	158.72957	-15.97	27.60	11.63	43.50	31.87	100	300	Horizontal
5	328.53617	-16.78	28.93	12.15	46.00	33.85	100	26	Horizontal
6	760.65355	-10.01	29.72	19.71	46.00	26.29	100	346	Horizontal

4. PHOTOGRAPH



Fig.1



Fig.2

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig.1



Fig.2



Fig.3



Fig.4

-----THE END OF REPORT-----