

FCC Test Report

Applicant : Alliance Sports Group., LP

Address : 700 Henrietta Creek Rd. Roanoke, TX,
Roanoke, TX 76262 United States

Product Name : POWER STATION

Report Date : Oct. 09, 2023

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Alliance Sports Group., LP
Manufacturer : Huizhou Intelligent Energy Co., Ltd
Product Name : POWER STATION
Test Model No. : NP1600PS
Reference Model No. : HALO-PS1600
Trade Mark : NEBO, HALO
Rating(s) : Please refer to page 6

Test Standard(s) : FCC Part 1.1310, 1.1307(b)
Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Aug. 14, 2023

Date of Test

Aug. 16, 2023 to Aug. 30, 2023

Prepared By



(TuTu Hong)

Approved & Authorized Signer



(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 09, 2023



1. General Information

1.1. Client Information

Applicant	:	Alliance Sports Group., LP
Address	:	700 Henrietta Creek Rd. Roanoke, TX, Roanoke, TX 76262 United States
Manufacturer	:	Huizhou Intelligent Energy Co., Ltd
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou , China
Factory	:	Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou , China

1.2. Description of Device (EUT)

Product Name	:	POWER STATION
Test Model No.	:	NP1600PS
Reference Model No.	:	HALO-PS1600 (Note: All samples are the same except the model number & Trade Mark, so we prepare "NP1600PS" for test only.)
Trade Mark	:	NEBO, HALO
Test Power Supply	:	DC 51.2V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	110.1-205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Rating(s):

NEBO PINNACLE™ 1600
POWER STATION

- Model: NP1600PS
- SKU: NEB-PST-0007
- Battery Energy: 1228.8Wh 51.2V
- Solar Input: 12-75VDC 25A 800W max
- AC Input: 100-130VAC/10A 60Hz, 1200W max
- Total AC and DC Input: 1200W max
- AC Socket(x4) Output: 120VAC 60Hz 1600W, Total: 1600W max
- USB-C(x2) Output: (5V/9V/12V/15V/20V) ~3A, 20V~5A 100W each port, Total: 200W
- USB-A(x2) Output: 5V~3A/9V~2A/12V~1.5A 18W each port, Total: 36W
- DC 5521(x2)+DC Power Socket 12V~10A, Total: 120W max
- LED lighting output: 5W max
- Wireless Output: 10W Total DC Output: 366W
- Total AC and DC Output: 1760W max
- Charge Temperature: 32-104°F(0-40°C)
- Discharge Temperature: 14-104°F(-10-40°C)
- Working Humidity: 10%~85%
- Date Code:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC ID: 2BASYNP1600PS

FC **BC**

MADE IN CHINA Li-ion

CAUTION!

- Risk of electric shock. Do not remove cover.
- No user serviceable parts inside. Refer servicing to qualified service personnel.
- Risk of Injury to persons. Do not use this product if the power cord or the battery cables are damaged in any way.
- This device is not intended for use in a commercial repair facility.

WARNING!

- Do not overcharge the internal battery. See Instruction Manual.
- Do not smoke, strike a match, or cause a spark in the vicinity of the power pack.
- Only charge the internal battery in a well ventilated area.
- Risk of Electric shock and risk of fire.

DANGER!

- This device is intended to be used indoors only. Do not use outdoors.

MISE EN GARDE!

- Risque de décharge électrique. Ne pas enlever le couvercle.
- Aucune des pièces à l'intérieur ne peut être réparée par l'utilisateur. L'entretien courant doit être effectué par un personnel d'entretien qualifié.
- Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sont endommagés de quelque façon.
- Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.

AVERTISSEMENT!

- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.
- Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation.
- Charger la batterie uniquement dans un endroit bien aéré.
- Risques de décharge électrique et d'incendie.

DANGER!

- Le dispositif est destiné à être utilisé à l'intérieur seulement. Ne pas l'utiliser à l'extérieur.

CONFORMES TO ANSI CANUL STD.2143

H1600IM V1.0.01 / 3.06.04.0559

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	/

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 17, 2022	1 Year

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)
Electric Field Reading(V/m)	:	+/-0.03679(V/m)



1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102



2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less than 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

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

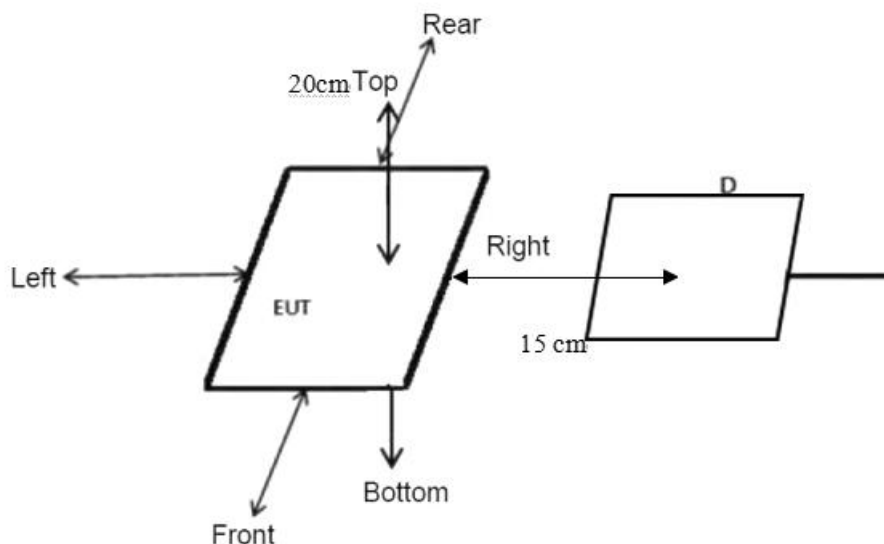
F=frequency in MHz

*=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).



2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points

(A, B, C, D, E) were completed. (A is the right, B is the back, C is the left, D is the front, and E is the top.)

- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

2.4. Test Result

2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.

- 1) Power transfer frequency is less than 1 MHz
 - The device operate in the frequency range 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling



only between individual pairs of coils

- The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.

4) Client device is inserted in or placed directly in contact with the transmitter

- Client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)

- The EUT is a Mobile exposure conditions

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

- Conducted the measurement with the required distance and the test results please refer to the section 2.4.

2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	DC 51.2V Battery inside

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205	0.36	0.45	0.40	0.41	0.53	307	614
50%	110.1-205	1.47	1.91	1.40	1.53	1.70	307	614
99%	110.1-205	2.41	2.81	2.42	2.37	2.83	307	614
Stand-by	110.1-205	0.46	0.61	0.45	0.44	0.58	307	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1-205	0.03	0.05	0.05	0.04	0.05	0.815	1.63
50%	110.1-205	0.38	0.47	0.37	0.37	0.54	0.815	1.63
99%	110.1-205	0.53	0.71	0.60	0.42	0.41	0.815	1.63
Stand-by	110.1-205	0.51	0.33	0.43	0.55	0.41	0.815	1.63

Note: All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 10W) was recorded in the report.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

