TEST REPORT

Report No.:	8330EU121402W4
Applicant:	Dakota Lithium Batteries
Address:	225 S. LUCILE ST. SEATTLE,WA 98108, the US
Product Name:	PORTABLE POWER STATION
Model No.:	PS2400
Trademark:	N/A
FCC ID:	2BDF8PS2400V2400A
Test Standard(s):	47 CFR Part 1 Subpart I Section 1.1310 47 CFR Part 2, Subpart J, Section 2.1091
Test Result:	Pass
Date of Receipt:	May 14, 2025
Test Date:	May 14, 2025 – May 30, 2025
Date of Issue:	Jun. 10, 2025

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

Prepared by:

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Revision Record

Report Version	Issued Date	Description	Status
V0	Jun. 10, 2025	Original	Valid

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2 General Information

2.1 Applicant Information

Applicant	Dakota Lithium Batteries
Address	225 S. LUCILE ST. SEATTLE,WA 98108, the US

2.2 Manufacturer Information

Manufacturer	Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F, Building E2-1, Qunyi Intelligent Manufacturing Industrial Park, No.1 Xingyuan South Road, Zhongkai High-tech Zone, HuiZhou

2.3 Factory Information

Factory	Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F, Building E2-1, Qunyi Intelligent Manufacturing Industrial Park, No.1 Xingyuan South Road, Zhongkai High-tech Zone, HuiZhou

2.4 General Description of E.U.T.

Product Name	PORTABLE POWER STATION
Model No. Under Test	PS2400
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Refer to the following detailed table.
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	N/A
Software Version	N/A
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Detailed table:

PORTABLE POWER STATION

- Type: PS2400
- Batch Code: IGM2400-0425
- Battery Capacity: 51.2V, 40Ah/2048Wh
- AC Input: 100V-130V~12.5A, 60Hz, 1500W
- PV Input: DC 12V-75V⎓25A, 800W Max
- AC Output ×4: Pure Sine Wave 120V~60Hz, 2400W
- AC Parallel Interface: 2400W
- After Being Connected AC Output: 4800W
- DC Output ×2 + Cigarette Lighter Socket Output: Total 12V⎓10A
- USB-A Output ×2: 5V⎓3A, 9V⎓2A, 12V⎓1.5A, 18W Max
- USB-C Output ×2: 5V/9V/12V/15V/20V⎓3A, 20V⎓5A, 100W Max
- Wireless Charge: 10W
- Operating Temp: 14 to 104°F (-10 to 40°C)
- Charging Temp: 32 to 104°F (0 to 40°C)

DAKOTA LITHIUM BATTERIES MEET U.N. 38.3 STANDARDS FOR QUALITY & PERFORMANCE, AND CONFORM TO U.N. 38.3/DOT SHIPPING REGULATIONS FOR AIR, TRAIN, MARINE, AND GROUND TRANSPORTATION. BUILT WITH GRADE A LIFEPO4 CELLS TESTED PER IEC62133 STANDARDS FOR SAFETY AND PERFORMANCE

1 99284 11696 2

Made in China

ALL BATTERIES INCLUDE AN ACTIVE BMS (BATTERY MANAGEMENT SYSTEM PROTECTION CIRCUIT THAT HANDLES CELL BALANCING, LO VOLTAGE CUTOFF, HIGH VOLTAGE CUTOFF, SHORT CIRCUIT PROTECTION AND TEMPERATURE PROTECTION FOR INCREASED PERFORMANCE AND LONGER LIFE

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: 2BDF8PS2400V2400A

CE FC RoHs UN38.3 Li-ion

MADE IN CHINA

⚠ WARNING!

- Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g.coins, hair-pins, keys, etc.) .
- Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures.
- Do not expose the unit to direct sunlight. Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- Do not drop and place heavy objects on, or allow strong impact to this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The unit may become hot when charging. This is normal. Be careful when handling.
- Use the unit properly to avoid electronic shock.
- The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.
- Do not overcharge the internal battery. See Instruction Manual.

⚠ ACHTUNG!

- Schließen Sie das Gerät nicht kurz. Um Kurzschlüsse zu vermeiden, halten Sie das Gerät von allen Metallgegenständen (z.B.Münzen, Haarnadeln, Schlüssel usw.) fern.
- Erhitzen Sie das Gerät nicht und werfen Sie es nicht in Feuer, Wasser oder andere Flüssigkeiten. Von hohen Temperaturen fernhalten.
- Setzen Sie das Gerät keiner direkten Sonneneinstrahlung aus. Von hoher Luftfeuchtigkeit und staubigen Orten fernhalten.
- Zerlegen Sie dieses Gerät nicht und bauen Sie es nicht wieder zusammen.
- Lassen Sie das Gerät nicht fallen, stellen Sie keine schweren Gegenstände darauf und setzen Sie es keinen starken Stößen aus.
- Dieses Gerät ist nicht für die Verwendung durch Personen (einschließlich Kinder) mit eingeschränkten körperlichen, sensorischen oder geistigen Fähigkeiten oder mangelnder Erfahrung und Wissen bestimmt, es sei denn, sie werden von einer für ihre Sicherheit verantwortlichen Person beaufsichtigt oder in die Verwendung des Geräts eingewiesen .
- Kinder sollten beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Gerät spielen.
- Das Gerät kann beim Laden heiß werden. Das ist normal. Seien Sie vorsichtig bei der Handhabung.
- Verwenden Sie das Gerät ordnungsgemäß, um einen Stromschlag zu vermeiden.
- Das Produkt wird nur für Notstromanlagen verwendet und kann nicht die Standard-Gleich- oder Wechselstromversorgung von Haushaltsgeräten oder digitalen Produkten ersetzen.
- Überladen Sie den internen Akku nicht. Siehe Bedienungsanleitung.

- Date Code:

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Bluetooth (BLE) WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40) Wireless Power Transfer

The requirement for the following technical information of the EUT was tested in this report:

Technology	**WPT**
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information is declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

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3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

Remark:
Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1091 KDB 680106 D01 Wireless Power Transfer v04	Pass	--

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15℃ to +35℃
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 60Hz

4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2025/02/14	2026/02/13

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (10W)--AC Power Supply	
TM2	Wireless Output (10W)--DC Power Supply	
TM3	Standby	

Note:
1. EUT supports empty load, half load, full load working at the same time, so the all conditions have been tested. It is found that TM1 full load is the worst mode, and the data in the report only reflects the worst mode.

4.4 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.6%
Electric field measurements(3kHz~10MHz)	±17.3%

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5 RF Exposure Evaluation

5.1 Test Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - 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).

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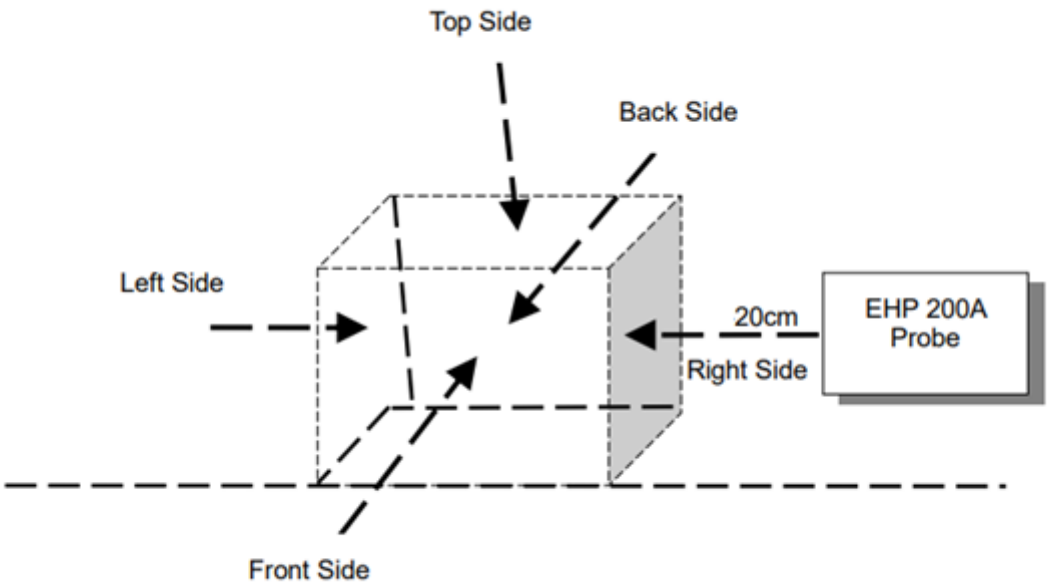
5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

1) The RF exposure test was performed in anechoic chamber.
2) The measurement probe was placed at test distance (20cm) 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, F) were completed.
4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

5.3 Evaluation Result

Test Condition: Test Mode 1 operating with client device (1% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	6.1237	614	0.84%	0.2830	1.63	14.10%
Bottom	4.0454			0.2400		
Front	1.2389			0.0500		
Rear	2.9836			0.0890		
Left	3.4141			0.0930		
Right	2.7973			0.1850		

Test Condition: Test Mode 1 operating with client device (50% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	5.5949	614	0.80%	0.2264	1.63	13.84%
Bottom	4.6303			0.1920		
Front	0.7420			0.0400		
Rear	3.6034			0.0712		
Left	3.0557			0.0744		
Right	4.6315			0.1480		

Test Condition: Test Mode 1 operating with client device (99% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	5.8923	614	0.82%	0.0570	1.63	20.60%
Bottom	5.3454			0.1900		
Front	0.5540			0.1460		
Rear	2.4895			0.0690		
Left	4.0919			0.0180		
Right	3.8351			0.2340		

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ANNEX A TEST SETUP PHOTOS

PHOTO 1 Test Position: Top	

STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the “inspection and testing dedicated stamp” or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

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