

FUZHOU CONSSIN LIGHTING CO.,LTD MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

ZBP 2000

REPORT NUMBER:

230202241SHA-002

ISSUE DATE:

May 25, 2023

DOCUMENT CONTROL NUMBER:

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Report no.: 230202241SHA-002

Applicant: FUZHOU CONSSIN LIGHTING CO.,LTD

No.6 Tie Ling West Road, Tie Ling Industrial Centralized, Fuzhou City,

Fujian Province, 350100 China

Manufacturer: FUZHOU CONSSIN LIGHTING CO.,LTD

No.6 Tie Ling West Road, Tie Ling Industrial Centralized, Fuzhou City,

Fujian Province, 350100 China

Factory: FUZHOU CONSSIN LIGHTING CO.,LTD

No.6 Tie Ling West Road, Tie Ling Industrial Centralized, Fuzhou City,

Fujian Province, 350100 China

FCC ID: 2BAIK-ZBP2000

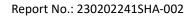
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:	
Sky Yang	Zrie. li	
Project Engineer	Reviewer	
Sky Yang	Eric Li	

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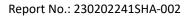




TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
230202241SHA-002	Rev. 01	Initial issue of report	May 25, 2023





1 GENERAL INFORMATION

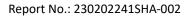
1.1 Description of Equipment Under Test (EUT)

Product name:	LITHIUM-ION POWER STATION
Type/Model:	ZBP 2000
Description of EUT:	The EUT is a mobile energy storage power supply with WIFI function, there is only one model.
Rating:	AC Input: 120VAC, 50Hz/60Hz, 20A Max PV Input: 12~60VDC, 15A Max, 800W Max AC Output: 120VAC, 50/60Hz, 20A Max USB-A Output: 5V/9V/12V, 3A Max USB-C Output: 5V/9V/12V, 3A Max
EUT type:	☐ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	March 13, 2023
Date of test:	March 15, 2023 ~ April 21, 2023

1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz	
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20	
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)	
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20)	
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7	
Channel Separation:	5 MHz	

Antenna information:			
No.	Antenna Type	Gain (dBi)	Note
1	PCB Antenna	-1.27	-

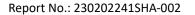




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN0175
organizations.	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02





2 MPE Assessment

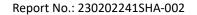
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength	H-field strength	B-field	Equivalent plane wave	
	(V/m)	(A/m)	(uT)	power density	
				S _{eq} (W/m²)	
0-1 Hz	-	3,2 × 10 ⁴	4 × 10 ⁴	-	
1-8 Hz	10 000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-	
8-25 Hz	10 000	4 000/f	5 000/f	-	
0,025-0,8 kHz	250/f	4/f	5/f	-	
0,8-3 kHz	250/f	5	6,25	-	
3-150 kHz	87	5	6,25	-	
0,15-1 MHz	87	0,73/f	0,92/f	-	
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-	
10-400 MHz	28	0,073	0,092	2	
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200	
2-300 GHz	61	0,16	0,20	10	

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is \leq 1.0





2.2 Assessment Results

Power density (S) is calculated according to the formula:

 $S = P / (4\pi R^2)$

Where $S = power density in mW/cm^2$

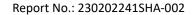
P = Radiated transmit power in mW

R = distance (cm)

As we can see from the test report 230202241SHA-001:

Here R is chosen to be 20cm,

Mode		Frequency Range	Ро	wer	R	S	Limits
	Mode	(MHz)	dBm	mW	(cm)	(mW/cm ²)	(mW/cm²)
	WIFI	2412 - 2462	10.59	11.455	20	0.0023	1





Appendix I

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be
maintained between the antenna of this device and persons during device operation.

Definition below must be outlined in the User Manual:

To ensure compliance, operations at closer than this distance is not recommended.

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