

Power Bright (SIP) Ltd.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
ENJ1000, ENX1000, KRJ1000, KRX1000

REPORT NUMBER:
200702601SHA-002

ISSUE DATE:
November 19, 2020

DOCUMENT CONTROL NUMBER:
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Applicant : Power Bright (SIP) Ltd.
NO.C3 Building, Wusong Industrial Zone, No 79 Wupu Road, Shengpu Town, Suzhou Industrial Park, Suzhou City, Jiangsu Province 215126

Manufacturer : Power Bright (SIP) Ltd.
NO.C3 Building, Wusong Industrial Zone, No 79 Wupu Road, Shengpu Town, Suzhou Industrial Park, Suzhou City, Jiangsu Province 215126

FCC ID : 2AXD6-JS1000

SUMMARY:

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

FCC PART 1 SECTION 1.1310

PREPARED BY:

Project Engineer
Erick Liu

REVIEWED BY:

Reviewer
Daniel Zhao

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Revision History

Report No.	Version	Description	Issued Date
200702601SHA-002	Rev. 01	Initial issue of report	November 19, 2020

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Multi-function Jump Starter
Type/Model:	ENJ1000, ENX1000, KRJ1000, KRX1000
Description of EUT:	The product covered by this report is a portable power pack with wireless charging function, all models are same except the model name, after evaluation, we choose ENJ1000 for all tests.
Rating:	Input: 5V, 2.4A or 9V 2.0A Output: USB: 5VDC 2A; 9V 2A; 12V 2A Boost: 12Vdc, 1000A (1ms); 12Vdc, 100A (5s) wireless output: 10W
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample number:	0200717-45-005
Sample received date:	June 11, 2020
Date of test:	June 13, 2020 ~ July 28, 2020

1.2 Technical Specification

Frequency Range:	110kHz – 149kHz
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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, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Wireless load	KjB/ZS3012	100% power level
2	Wireless load	KjB/ZS3012	50% power level
3	Wireless load	KjB/ZS3012	0% power level
4	USB load	RX21	Used for PL-0170UQ

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Exposure Level Tester	Narda	ELT-400	EC 2928	2021-08-15
☒	Field sensor & Field meter	AR	FL17000	EC 5818-1	2021-05-21

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

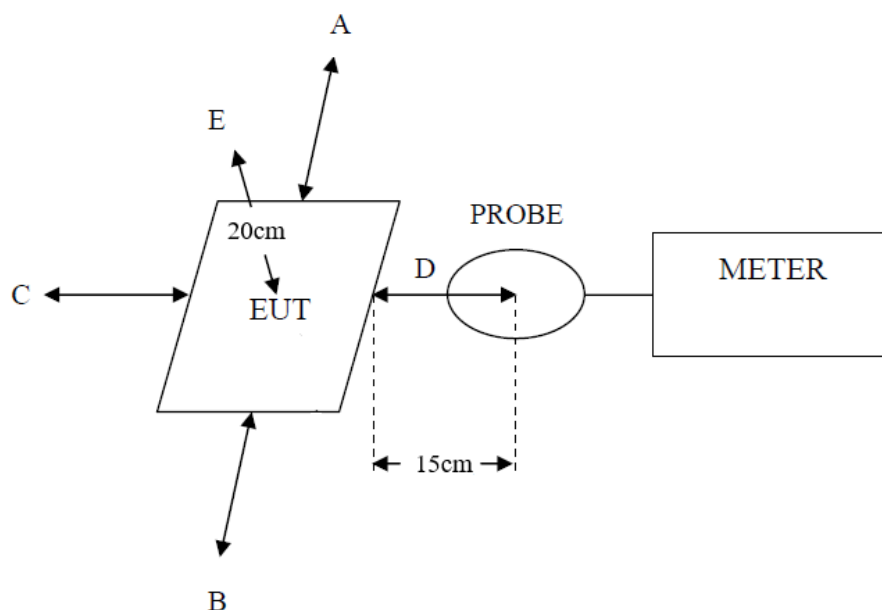
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0048	1.63 *0.5	Pass
B: Left	15	0.0034	1.63 *0.5	Pass
C: Front	15	0.0057	1.63 *0.5	Pass
D: Back	15	0.0046	1.63 *0.5	Pass
E: Top	20	0.0037	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.63	614 *0.5	Pass
B: Left	15	0.58	614 *0.5	Pass
C: Front	15	0.47	614 *0.5	Pass
D: Back	15	0.63	614 *0.5	Pass
E: Top	20	0.74	614 *0.5	Pass

***** END *****