

Shenzhen Keding Hardware Co.,Ltd

TEST REPORT

SCOPE OF WORK

EMC TESTING-K268-1, K268-2, K268-3

REPORT NUMBER

211126080GZU-002

ISSUE DATE

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TEST REPORT

Room 02, & 101/E201/E301/
E401/E501/E601/E701/E801 of
Room 01 1-8/F., No. 7-2. Caipin
Road, Science City, GETDD,
Guangzhou, Guangdong, China
Telephone: +86 20 8213 9688
Facsimile: +86 20 3205 7538
www.intertek.com.cn

Applicant Name & : Shenzhen Keding Hardware Co.,Ltd
Address : No.18 Tangkeng 3Rd, Pingshan District, Shenzhen, Guangdong,
China
Manufacturing Site : Same as applicant
Intertek Report No: 211126080GZU-002
FCC ID: 2AZIX-K268269

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Sample Description

Product : Pop Up Socket
Model No. : K268-1, K268-2, K268-3
Electrical Rating : Input:15A 125V 60Hz
AC Output:15A 1875W
USB Output:5V 3.4A(total)
Wireless charger:10W
Serial No. : Not Labeled
Date Received : 15 November 2019
Date Test : 10 March 2022
Conducted

Prepared and Checked By



Elena Lei

Engineer

Approved By:



Dean Liu

Project Engineer

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou,
Guangdong, China

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TEST REPORT**1.0 TEST RESULT SUMMARY**

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered. K268-1, K268-2, K268-3 are same except the number of American socket is different, K268-3 was selected for full testing.

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2.0 General Description

2.1 Product Description

Operating Frequency	117K/146K
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi as declared by applicant
Power Supply:	Input:15A 125V 60Hz AC Output:15A 1875W USB Output:5V 3.4A(total) Wireless charger:10W
Power cord:	wires unscreened cable

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by Shenzhen Keding Hardware Co.,Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

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2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Description	Manufacturer	Model No.	SN/Version	Supplied by
1 st cement resistor	-	2 Ω ,50W	-	Intertek
2 st cement resistor	-	2 Ω ,50W	-	Intertek
1 st Bulb	FSL	100-240V, 50W	-	Intertek
2 st Bulb	FSL	100-240V, 50W	-	Intertek
3 st Bulb	FSL	100-240V, 50W	-	Intertek
WPT client	--	5W,7.5W,10W	117K/146K	Customer

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
1 st cement resistor cord	C-01	USB	0.3 m(unshielded)	Intertek
2 nd cement resistor cord	C-02	USB	0.3 m(unshielded)	Intertek
1 st Bulb cord	C-03	AC	0.5 m(unshielded)	Intertek
2 nd Bulb cord	C-04	AC	0.5 m(unshielded)	Intertek
3 rd Bulb cord	C-05	AC	0.5 m(unshielded)	Intertek

Remark: WPT client was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based 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 above evaluated respectively

Pretest mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	WPT client is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously
	CH: Middle	
	CH: High	

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3.0 EMF TEST

3.1 Standard Requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	F/300	6
1500-100000	--	--	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100000	--	--	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

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3.2 Test Data

Input Voltage: 120V/60Hz

Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

H-Field Strength:

Test Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	WPT client in 1% battery power	WPT client in 50% battery power	WPT client in 99% battery power		
Side 1	0.024	0.028	0.023	0.815	1.63
Side 2	0.029	0.026	0.022	0.815	1.63
Side 3	0.033	0.027	0.030	0.815	1.63
Side 4	0.035	0.034	0.033	0.815	1.63
Top	0.031	0.034	0.037	0.815	1.63

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2022/2/28	2023/2/28

*****End of the test report*****