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CNAS L0095

# CE TEST REPORT

**Application No.:** CE2017CQC0718-009044

**Report Ref. No.:** CVCCE2017-0124EMC

**Name of product:** RICE COOKER

**Model:** Details see 1. General Product Information.

**Name of Laboratory:** Vkan Certification & Testing Co., Ltd.



CHINA QUALITY CERTIFICATION CENTRE

<b>Test Report No.</b> CVCCE2017-0124EMC		<b>Page 2 of 31</b>	
<b>Client</b>		<b>Name:</b> Guangdong Weking Group Co., Ltd. <b>Address:</b> Jiuzhou River Economic Development Zone, Lianjiang City, Guangdong Province, P.R.C	
<b>Manufacturer</b>		<b>Name:</b> Guangdong Weking Group Co., Ltd. <b>Address:</b> Jiuzhou River Economic Development Zone, Lianjiang City, Guangdong Province, P.R.C	
<b>Equipment Under Test</b>		<b>Name</b> : RICE COOKER <b>Model/Type</b> : CFXB60-100W(6)-TB <b>Trade mark</b> : — <b>Serial no.</b> : — <b>Sampling</b> : —	
<b>Date of Receipt.</b>	2017.08.22	<b>Date of Testing</b>	2017.08.22~ 2017.08.30
<b>Test Specification</b>		<b>Test Result</b>	
EN 55014-1: 2006+A1:2009+A2:2011 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission		PASS	
EN 55014-2: 2015 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard		PASS	
EN 61000-3-2: 2014 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)		PASS	
EN 61000-3-3: 2013 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection		PASS	
<b>Evaluation of Test Result</b>	The equipment under test was found to comply with the requirements of the standards applied.		
		 <b>Issue Date:</b> 2017-0901	
Tested by: 	Reviewed by: 	Approved by: 	
Li Minhua Name      Signature	Lai Jinquan Name      Signature	Zeng Bo Name      Signature	
<b>Other Aspects:</b>			
NONE.			
Abbreviations:OK,		Pass = passed	Fail = failed
N/A= not applicable		EUT= equipment, sample(s) under tested	
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.			

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## 1. General Product Information

Main model: CFXB60-100W(6)-TB.

Variants: CFXB12-35W(1), CFXB12-35W(1)-B, CFXB20-40W(1),  
CFXB20-40(1)-B, CFXB30-50W(1), CFXB30-50W(1)-B, CFXB40-70W(1),  
CFXB40-70W(1)-B, CFXB50-90W(1), CFXB50-90W(1)-B, CFXB60-100W(1),  
CFXB60-100W(1)-B, CFXB12-35W(2), CFXB12-35W(2)-B, CFXB20-40W(2),  
CFXB20-40(2)-B, CFXB30-50W(2), CFXB30-50W(2)-B, CFXB40-70W(2),  
CFXB40-70W(2)-B, CFXB50-90W(2), CFXB50-90W(2)-B, CFXB60-100W(2),  
CFXB60-100W(2)-B, CFXB40-70W(3), CFXB40-70W(3)-B, CFXB50-90W(3),  
CFXB50-90W(3)-B, CFXB60-100W(3), CFXB60-100W(3)-B, CFXB40-70W(4),  
CFXB40-70W(4)-B, CFXB50-90W(4), CFXB50-90W(4)-B, CFXB60-100W(4),  
CFXB60-100W(2)-B, CFXB40-70W(5), CFXB40-70W(5)-B, CFXB50-90W(5),  
CFXB50-90W(5)-B, CFXB60-100W(5), CFXB60-100W(5)-B, CFXB40-70W(6)-B,  
CFXB50-90W(6)-B, CFXB60-100W(6)-B, CFXB40-70W(6)-TB,  
CFXB50-90W(6)-TB.

Except for the appearances, power input and capacity, there is no any other difference between the main model and variants.

CFXB60-100W(6)-TB is selected as the representative model for full tests.

The EUT uses four thermostats, so this report embodies one full test and another three “Discontinuous Disturbance” test results.

### 1.1 Product Function

Refer to the operation instruction.

### 1.2 Ratings and System Details

Details see 6.1 Nameplate.

### 1.3 Independent Operation Modes

The basic operation modes are:

1. Cook
2. Warm
3. Off

### 1.4 Submitted Documents

Structural Parts

Rating Label

Photographs of EUT

Material Bill (Parts List)

## **2. Test Sites**

### **2.1 Test Facilities**

The tests and measurements refer to this report were performed by EMC testing Lab. of Vkan Certification & Testing Co., Ltd.

Add.: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. China  
Telephone : +86-20-32293888  
Fax : +86-20-32293889

The EMC testing laboratory has been recognized by CNAS, and authorized by Nemko of Norway since 1997, and accredited by DAkkS of Germany since 2007, and assessed and found eligible to participated in the TDAP of VDE testing and certification Institute since 2004, and registered by FCC since 2001.

### **2.2 Description of Non-standard Method and Deviations**

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

### **2.3 List of Test and Measurement Instruments**

Refer to **Appendix A**.

### **3. Test Set-up and Operation Modes**

#### **3.1 Principle of Configuration Selection**

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

**Immunity:** The equipment under test (EUT) was configured to the representative operating mode and conditions.

#### **3.2 Physical Configuration For Testing**

Refer to relative descriptions in this test report.

#### **3.3 Test Operation Mode and Test Software**

Refer to Test Setup in clause 4 and clause 5.

#### **3.4 Special Accessories and Auxiliary Equipment**

None.

#### **3.5 Countermeasures to Achieve EMC Compliance**

None.

## 4. Emission Test Results

### 4.1 Emission in Radio Frequency Range

#### 4.1.1 Continuous Disturbance Voltage

**RESULT** : Pass

##### Test Setup

Test procedure	:	EN 55014-1: 2006+A1:2009+A2:2011
Frequency range	:	0.15~30MHz
Limits	:	EN 55014-1: 2006+A1:2009+A2:2011 , clause 4.1.1, table 1
Test Site	:	Shielding Room;
Artificial Hand	:	Not applied
Voltage Probe	:	Not applied
Earthing	:	Applied

The GRP (Ground Reference Plate) is 2m×3m.

The EUT was placed on a wooden support, 0.4m high, standing on the GRP, at a distance of 0.8m from artificial mains V-network, to simulate the really situation.

The EUT was kept more than 0.8m from any other earthed conducting surface.

**Test Conditions**

Ambient Temperature : 26°C/ 26 °C (Before Test /After Test);  
 Relative Humidity : 58 %/ 58% (Before Test /After Test);  
 Mains voltage determined at 160 kHz : 264 V / 50 Hz ;  
 Operating Mode of the EUT : Cooking.

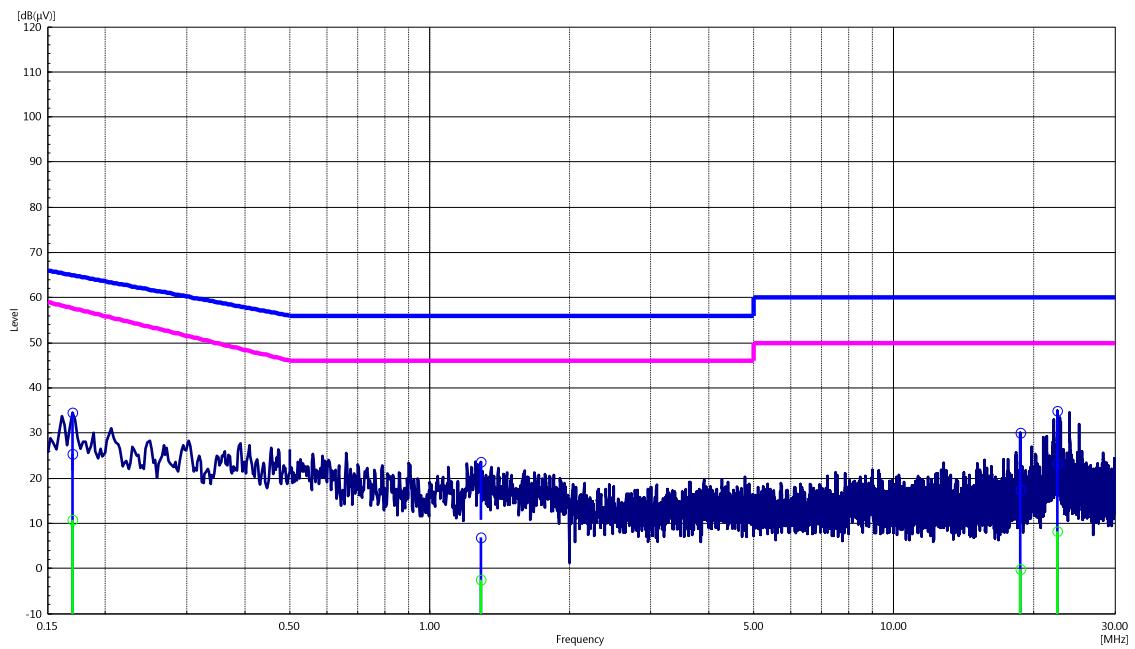
Continuous Disturbance Voltage				
Port: AC Power Line(L line)				
Freq. (MHz)	QP Reading (dB $\mu$ V)	QP Limits (dB $\mu$ V)	AV Reading (dB $\mu$ V)	AV Limits (dB $\mu$ V)
0.170	25.4	64.9	10.8	57.6
22.501	23.2	60.0	8.2	50.0
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

*Note: Where PK reading is less than relevant limit decrease 25dB, the QP reading and AV reading will not be recorded.*

*Where QP reading is less than relevant AV limit, the AV reading will not be measured.*

*A test at about 160 kHz has been made over a range of 0.9 to 1.1 times the rated voltage to check whether the level of disturbance varies considerably with the supply voltage; in which case, the measurements has been made at the voltage that causes maximum disturbance.*

*The measurement uncertainty for mains terminal disturbance voltage from 150kHz to 30MHz: 3.460dB*

**Scan Graph and Scan Settings**

*Note:* Terminal disturbance voltage measurement on L line of AC mains

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test /After Test);  
 Relative Humidity : 58%/ 58% (Before Test /After Test);  
 Mains voltage determined at 160 kHz : 264 V / 50 Hz;  
 Operating Mode of the EUT : Cooking.

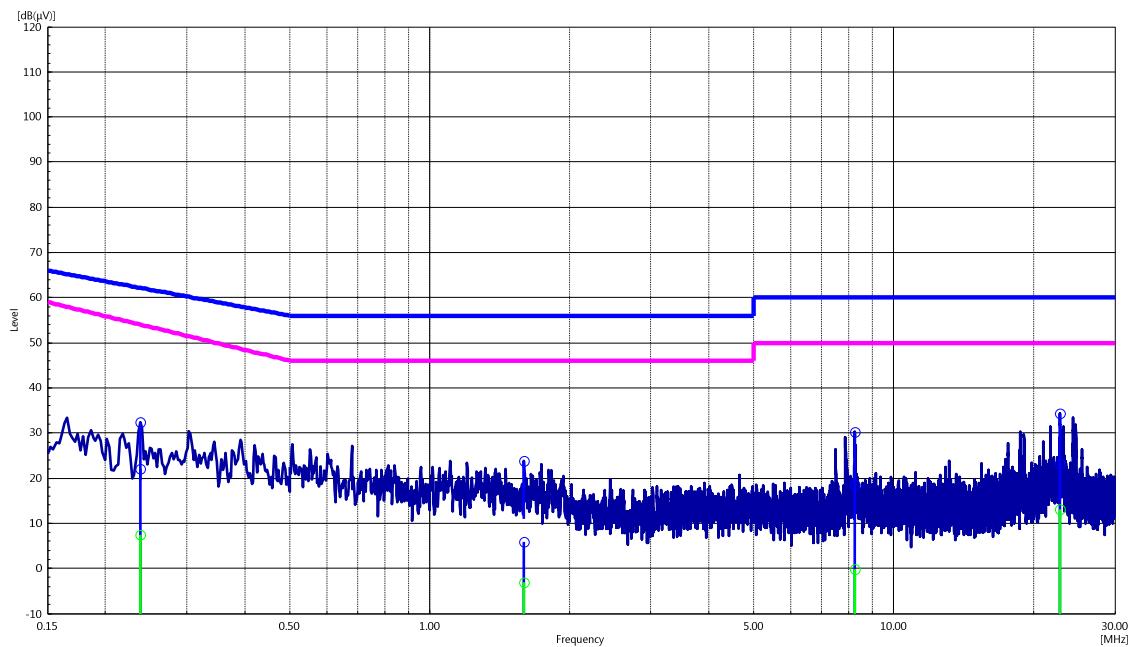
Continuous Disturbance Voltage				
Port: AC Power Line(N line)				
Freq. (MHz)	QP Reading (dB $\mu$ V)	QP Limits (dB $\mu$ V)	AV Reading (dB $\mu$ V)	AV Limits (dB $\mu$ V)
0.238	22.0	62.2	7.4	54.0
22.876	23.3	60.0	13.0	50.0
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

*Note: Where PK reading is less than relevant limit decrease 25dB, the QP reading and AV reading will not be recorded.*

*Where QP reading is less than relevant AV limit, the AV reading will not be measured.*

*A test at about 160 kHz has been made over a range of 0.9 to 1.1 times the rated voltage to check whether the level of disturbance varies considerably with the supply voltage; in which case, the measurements has been made at the voltage that causes maximum disturbance.*

*The measurement uncertainty for mains terminal disturbance voltage from 150kHz to 30MHz: 3.460dB*

**Scan Graph and Scan Settings**

*Note:* Terminal disturbance voltage measurement on N line of AC mains.

**4.1.2 Disturbance Power****RESULT** : **Pass****Test Setup**

Test procedure : EN 55014-1: 2006+A1:2009+A2:2011  
Frequency range : 30 ~ 300MHz  
Limits : EN 55014-1: 2006+A1:2009+A2:2011 ,  
clause 4.1.2, table 2  
Test Site : Shielding Room  
Artificial Hand : Not applied  
Earthing : Applied

The EUT was placed on a wooden fence of 0.8m high and kept at least 0.8m from other metallic objects, to simulate the really situation.

The power cord had been stretched in a straight line laying horizontal on the clamp track to a length of 6m and routed through an absorber clamp. The clamp was moved along the cable to find the maximum emission.

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test/After Test);  
 Relative Humidity : 58% / 58% (Before Test/After Test);  
 Mains voltage determined at 50 MHz : 264 V / 50 Hz;  
 Operating Mode of the EUT : Cooking.

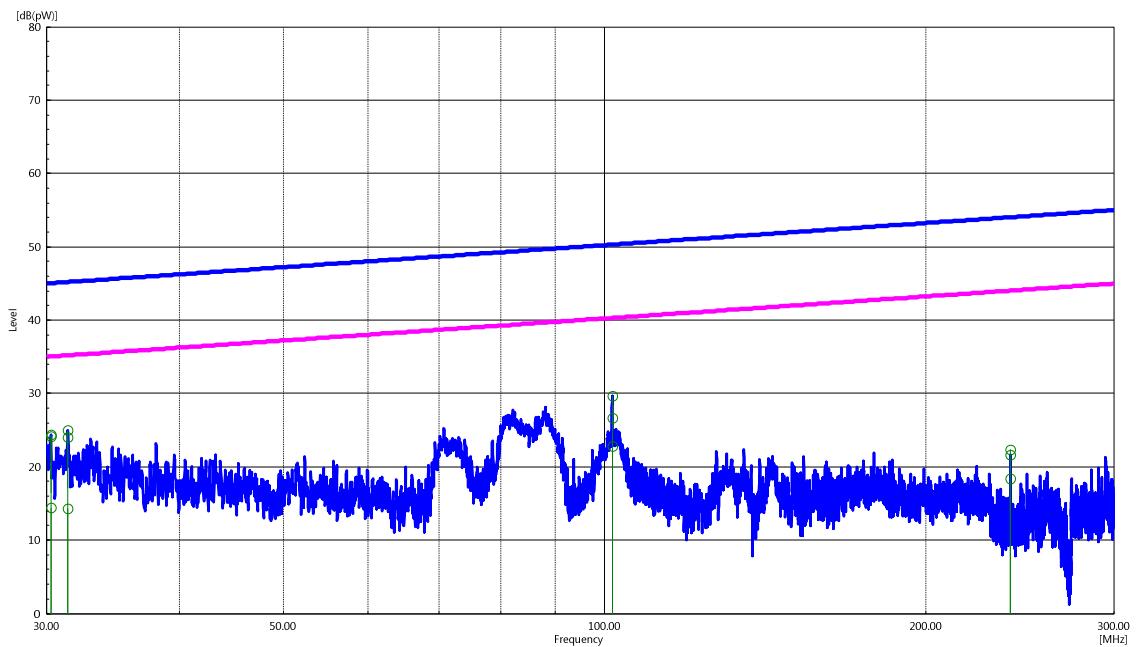
Disturbance Power						
Port: AC Power Line						
Freq. (MHz)	QP Reading (dBpW)	QP Limits (dBpW)	QP Margin (dB pW)	QP Margin limit (dB pW)	AV Reading (dBpW)	AV Limits (dBpW)
31.440	24.1	45.2	/	/	14.4	35.2
30.300	24.1	45.0	/	/	14.5	35.0
101.710	26.6	50.3	/	/	22.8	40.3
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

*Note: Where PK reading is less than relevant limit decrease 25dB, the QP reading and AV reading will not be recorded.*

*Where QP reading is less than relevant AV limit, the AV reading will not be measured.*

*A test at about 50MHz has been made over a range of 0.9 to 1.1 times the rated voltage to check whether the level of disturbance varies considerably with the supply voltage; in which case, the measurements has been made at the voltage that causes maximum disturbance.*

*The measurement uncertainty for disturbance power from 30MHz to 300MHz: 4.072dB.*

**Scan Graph and Scan Settings**

*Note:* Disturbance power measurement on AC power line

**4.1.3 Radiated Disturbance (30MHz~1000MHz)****RESULT** : **N/A****Remark:**

1. Additional margin (200MHz to 300MHz) meets the margin requirement in 4.1.2 disturbance power table.
2. Clock frequency of the EUT is less than 30MHz.

**4.1.4 Discontinuous Disturbance****RESULT** : **Pass****Test Setup**

Test procedure	:	EN 55014-1: 2006+A1:2009+A2:2011
Frequency range	:	0.15 ~ 30MHz
Limits	:	EN 55014-1: 2006+A1:2009+A2:2011 , clause 4.2
Test Site	:	Shielding Room
Artificial Hand	:	Not applied
Earthing	:	Applied

The GRP (Ground Reference Plate) is 2m×3m.

The EUT was placed on a wooden support, 0.4m high, standing on the GRP, at a distance of 0.8m from artificial mains V-network, to simulate the really situation.

The EUT was kept more than 0.8m from any other earthed conducting surface.

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test/After Test);  
 Relative Humidity : 58 %/ 58 %(Before Test/After Test);  
 Power Supply : 230V/ 50 Hz;  
 Operating Mode of the EUT : Keep Warm (Thermostat 1).

Frequency	150 kHz	500 kHz	1.4 MHz	30 MHz
Attenuation (dB $\mu$ V)	66	56	56	60
Short Clicks (<10ms)	0	0	0	0
Middle Clicks (10ms-20ms)	0	0	0	0
Long Clicks (20ms-200ms)	0	0	0	0
Continuous Disturbance	0	0	0	0
Switching Operation	/			
Factor: f	1.0			
Observation Time: T(min)	120			
Click Rate: N	0	0	0	0
Limit: Lq (dB $\mu$ V)	/	/	/	/
Permitted Clicks Exceeding Lq	/	/	/	/

Because the click rate is no more than 5, none of the caused clicks has a duration longer than 20ms, 90% of the caused clicks have a duration less than 10ms. So it complied with the limits.

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test/After Test);  
Relative Humidity : 58 %/ 58 %(Before Test/After Test);  
Power Supply : 230V/ 50 Hz;  
Operating Mode of the EUT : Keep Warm (Thermostat 2).

Frequency	150 kHz	500 kHz	1.4 MHz	30 MHz
Attenuation (dB $\mu$ V)	66	56	56	60
Short Clicks (<10ms)	0	0	0	0
Middle Clicks (10ms-20ms)	0	0	0	0
Long Clicks (20ms-200ms)	0	0	0	0
Continuous Disturbance	0	0	0	0
Switching Operation	/			
Factor: f	1.0			
Observation Time: T(min)	120			
Click Rate: N	0	0	0	0
Limit: Lq (dB $\mu$ V)	/	/	/	/
Permitted Clicks Exceeding Lq	/	/	/	/

Because the click rate is no more than 5, none of the caused clicks has a duration longer than 20ms, 90% of the caused clicks have a duration less than 10ms. So it complied with the limits.

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test/After Test);  
 Relative Humidity : 58 %/ 58 %(Before Test/After Test);  
 Power Supply : 230V/ 50 Hz;  
 Operating Mode of the EUT : Keep Warm (Thermostat 3).

Frequency	150 kHz	500 kHz	1.4 MHz	30 MHz
Attenuation (dB $\mu$ V)	66	56	56	60
Short Clicks (<10ms)	0	0	0	0
Middle Clicks (10ms-20ms)	0	0	0	0
Long Clicks (20ms-200ms)	0	0	0	0
Continuous Disturbance	0	0	0	0
Switching Operation	/			
Factor: f	1.0			
Observation Time: T(min)	120			
Click Rate: N	0	0	0	0
Limit: Lq (dB $\mu$ V)	/	/	/	/
Permitted Clicks Exceeding Lq	/	/	/	/

Because the click rate is no more than 5, none of the caused clicks has a duration longer than 20ms, 90% of the caused clicks have a duration less than 10ms. So it complied with the limits.

**Test Conditions**

Ambient Temperature : 26 °C/ 26 °C (Before Test/After Test);  
 Relative Humidity : 58 %/ 58 %(Before Test/After Test);  
 Power Supply : 230V/ 50 Hz;  
 Operating Mode of the EUT : Keep Warm (Thermostat 4).

Frequency	150 kHz	500 kHz	1.4 MHz	30 MHz
Attenuation (dB $\mu$ V)	66	56	56	60
Short Clicks (<10ms)	0	0	0	0
Middle Clicks (10ms-20ms)	0	0	0	0
Long Clicks (20ms-200ms)	0	0	0	0
Continuous Disturbance	0	0	0	0
Switching Operation	/			
Factor: f	1.0			
Observation Time: T(min)	120			
Click Rate: N	0	0	0	0
Limit: Lq (dB $\mu$ V)	/	/	/	/
Permitted Clicks Exceeding Lq	/	/	/	/

Because the click rate is no more than 5, none of the caused clicks has a duration longer than 20ms, 90% of the caused clicks have a duration less than 10ms. So it complied with the limits.

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Remark:

According to Annex B of EN 55014-1: 2006+A1:2009+A2:2011  
, This test is only applicable for induction cooker.

**4.1.6 Frequency range 9kHz to 30MHz (Small loop method)****RESULT** : N/A

Remark:

According to Annex B of EN 55014-1: 2006+A1:2009+A2:2011, This test is only applicable for induction cooker.

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## **4.2 Harmonics on AC Mains**

**RESULT : Pass****Test Setup**

Test procedure : EN 61000-3-2:2014  
Measured harmonics : 2 ~ 40th  
Equipment Class : A  
Limits : EN 61000-3-2:2014, clause 7.1, Table 1

**Test Conditions:**

Ambient Temperature : 26 °C / 26 °C (Before Test/After Test);  
 Relative Humidity : 58% / 58% (Before Test/After Test);  
 Power Supply : 230 V / 50 Hz ;  
 Operating Mode of the EUT : Cooking.

Measurement type: Class A

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.003	1.080	0.2	0.023	1.620	1.42	Pass
3	0.006	2.300	0.3	0.026	3.450	0.74	Pass
4	0.002	0.430	0.4	0.014	0.645	2.21	Pass
5	0.003	1.140	0.2	0.012	1.710	0.72	Pass
6	0.001	0.300	0.3	0.009	0.450	2.10	Pass
7	0.001	0.770	0.1	0.009	1.155	0.75	Pass
8	0.001	0.230	0.3	0.007	0.345	1.96	Pass
9	0.001	0.400	0.2	0.006	0.600	0.92	Pass
10	0.001	0.184	0.3	0.005	0.276	1.88	Pass
11	0.001	0.330	0.2	0.005	0.495	1.02	Pass
12	0.000	0.153	0.3	0.005	0.230	2.08	Pass
13	0.000	0.210	0.2	0.004	0.315	1.25	Pass
14	0.000	0.131	0.3	0.003	0.197	1.76	Pass
15	0.000	0.150	0.2	0.004	0.225	1.58	Pass
16	0.000	0.115	0.3	0.004	0.173	2.02	Pass
17	0.000	0.132	0.3	0.003	0.199	1.57	Pass
18	0.000	0.102	0.4	0.003	0.153	1.80	Pass
19	0.000	0.118	0.2	0.003	0.178	1.47	Pass
20	0.000	0.092	0.5	0.003	0.138	2.00	Pass
21	0.000	0.107	0.3	0.003	0.161	1.65	Pass
22	0.000	0.084	0.3	0.002	0.125	1.85	Pass
23	0.000	0.098	0.3	0.002	0.147	1.42	Pass
24	0.000	0.077	0.4	0.002	0.115	1.91	Pass
25	0.000	0.090	0.2	0.002	0.135	1.69	Pass
26	0.000	0.071	0.4	0.002	0.106	2.02	Pass
27	0.000	0.083	0.3	0.002	0.125	1.50	Pass
28	0.000	0.066	0.5	0.002	0.099	1.95	Pass
29	0.000	0.078	0.3	0.002	0.116	1.68	Pass
30	0.000	0.061	0.4	0.002	0.092	2.16	Pass
31	0.000	0.073	0.3	0.002	0.109	1.61	Pass
32	0.000	0.058	0.5	0.002	0.086	2.01	Pass
33	0.000	0.068	0.3	0.002	0.102	1.60	Pass
34	0.000	0.054	0.4	0.002	0.081	2.14	Pass
35	0.000	0.064	0.3	0.002	0.096	1.70	Pass
36	0.000	0.051	0.4	0.001	0.077	1.88	Pass
37	0.000	0.061	0.3	0.001	0.091	1.52	Pass
38	0.000	0.048	0.4	0.001	0.073	2.03	Pass
39	0.000	0.058	0.3	0.002	0.087	1.77	Pass
40	0.000	0.046	0.3	0.001	0.069	1.23	Pass

*Note: The measurement uncertainty for harmonic test is under consideration according to CISPR 16-4-2:2003.*

### 4.3 Voltage Fluctuations on AC Mains

**RESULT** : **Pass**

#### Test Setup

Test procedure : EN 61000-3-3:2013  
 Limits : EN 61000-3-3:2013, Clause 5

#### Test Conditions

Ambient Temperature : 22 °C/22 °C (Before Test/After Test);  
 Relative Humidity : 55% / 55% (Before Test/After Test);  
 Power Supply : 230V/ 50 Hz;  
 Operating Mode of the EUT : Cooking.

Voltage Fluctuation	Limit	Value
Relative Voltage Change Characteristic d(t)	500ms	0ms
Maximum Relative Voltage Change dmax	4%	/
	6%	0.0%
	7%	/
Relative Steady-state Voltage Change dc	3.3%	0.0%

Flicker	Limit	Value
Short-term Flicker Indicator Pst	1.0	0.044
Long-term Flicker Indicator Plt	0.65	0.018

*Note: The measurement uncertainty for harmonic test is under consideration according to CISPR 16-4-2:2003.*

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## 5. Immunity Test Results

**RESULT : N/A**

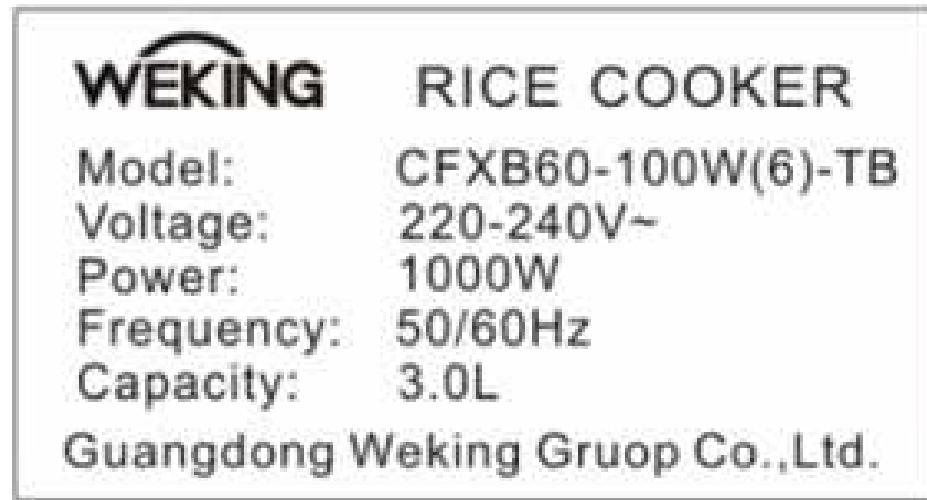
Remark:

The EUT contains no electronic control circuit.

According to EN 55014-2:2015 the EUT is a category I appliance and is deemed to fulfill the relevant immunity requirements without test.

## 6. Photographs & Nameplates of the EUT

### 6.1 Nameplate:



### 6.2 Outlook of the EUT:

CFXB60-100W(6)-TB

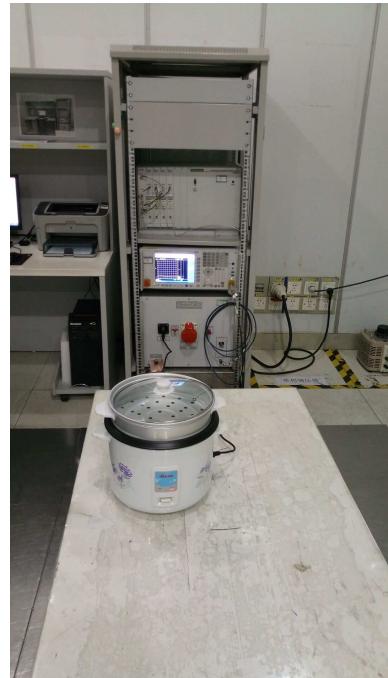


**6.3 Structure of internal wires:**



## 7. Photograph of the test setup

Continuous Disturbance Voltage



Disturbance Power



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Discontinuous Disturbance



Harmonics, Flick and Voltage



## 8. Key components list

KEY COMPONENTS RELATIVE WITH EMC PERFORMANCE				
Component	Manufacture	Type	Parameter	Certification
*Thermostat	ZhongShang Huillong Electrical Co., Ltd.	KSD101	10A/15A 250V ~ 72°C	--
*(Alternate)	Foshan City Shuande Districe Lunjiao Songyuan Electronic Factory	KSD101	10A 250V ~ 72°C	--
*(Alternate)	ZhongShan Huilong Electrical Co., Ltd.	KST101-B	10A 250V ~ 72°C	--
*(Alternate)	Ka wo Electrical Co., Ltd.	TI-838B	10A 250V ~ 72°C	--
The end				

Note: The EMC test is carried out on the model containing the key part of the “\*” in the table.

## **Appendix A: Test equipment list**

Test Equipment	Type/Mode	Equipment No.	Manufacturer	Cal. Due	Used
EMI Test Receiver	ESI26	EM-0087	R & S	2017.09.24	
EMI Test Receiver	ESCS30	KA-0080	R & S	2018.01.12	
EMI Test Receiver	ESCI	NB-0087	R & S	2017.12.13	
EMI Test Receiver	N9038A-508 (10m)	EM-000396	Agilent	2018.05.14	
EMI Test Receiver	N9038A-508	EM-000397	Agilent	2018.05.14	✓
plus Limiter(20dB)	ESH2-Z11	K-037-8	R & S	2018.01.12	
plus Limiter(10dB)	VTSD 9561F	EM-000367	SCHWARZBECK	2017.12.13	✓
LISN	NSLK 8127	EM-000370	SCHWARZBECK	2018.01.12	
LISN	NSLK 8128	EM-000369	SCHWARZBECK	2018.01.12	✓
LISN	NNLK 8129	EM-000388	SCHWARZBECK	2018.05.14	
Passive Probe	TK9420	EM-000363	SCHWARZBECK	2018.05.14	
Discontinuous Interference Analyzer	DDA55	/	Afj	2017.09.01	
Discontinuous Interference Analyzer	DIA1512D	DE-0014	TESEQ	2018.05.14	✓
Absorbing Clamp	MDS21B	K005	LUTSI	2017.11.20	✓
Harmonic/Voltage Dips Test System	PACS-1/5001IX	NA-0055	CALIFORNIA	2018.06.24	✓
45kVA Three Phase Harmonic Voltage Flicker Test System	Proline 2145-400	VGDS-0116	TESEQ	2018.05.11	
Three Loop Antenna	HXYZ9170	EM-000361	SCHWARZBECK	2018.01.12	
Broadband Antenna	VULB 9163	EM-000342	SCHWARZBECK	2018.05.14	
Broadband Antenna	VULB 9163	EM-000381	SCHWARZBECK	2018.05.14	
Broadband Antenna	VULB 9163	EM-000382	SCHWARZBECK	2019.02.23	
Waveguide Horn Antenna	HF906	WKNA-0024-8	R&S	2018.05.18	
Waveguide Horn Antenna	BBHA9120B	EM-000383	SCHWARZBECK	2018.05.18	
Loop Antenna	FMZB1513	EM-000384	SCHWARZBECK	2018.05.14	
ESD Generator	NSG438	NA-0091	TESEQ	2017.12.15	
CIS9942 Radiated Electromagnetic Field Immunity Test System	CIS9942	EM-0092	BOONTON	2018.05.14	
Conducted Immunity Test System	NSG 4070	EM-000344	TESEQ	2018.01.12	
CDN	M532	EM-000344-2	TESEQ	2018.05.14	
CDN	M016	EM-000300	TESEQ	2018.05.14	
Electromagnetic Injection Clamp	EM101	/	LIITNI	2018.05.14	
EFT And Surge Testing System	NSG3060/CDN3063	EM-000337	TESEQ	2018.05.11	
Capacitive Coupling Clamp	CDN8014	EM-000337-4	TESEQ	2018.01.12	
Balance-To-Unbalance Transformer	SY 9501	NE-0037	SCHWARZBECK	2018.06.28	
Digital Real-Time Oscilloscope	MDO3032	VGDY-0347	TEKTRONIX	2018.02.26	
Impedance Stabilization Network	ISN T800	WKNE-0195	TESEQ	2018.01.12	
Impedance Stabilization Network	NTFM8158	VGDY-0356	SCHWARZBECK	2018.07.15	
T Impedance Stabilization Network	NTFM8131	EM-000498	SCHWARZBECK	2018.06.24	
Power Divider	4901.17.B	DB-0016	HUBER+SUHNER	2018.01.12	
Shielding Room(#1)	GP1A	NF-0001	LEININ	2018.06.18	✓
Shielding Room(#2)	GP1A	WKNF-0006	LEININ	2018.06.18	

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Test Equipment	Type/Mode	Equipment No.	Manufacturer	Cal. Due	Used
Semi-Anechoic Chamber(3m)	966	WKNA-0024	ETS	2020.07.09	
Electromagnetic Radiation Tester	ELT-400	KA-0101	NARDA	2018.05.08	
Power Frequency Magnetic Field	EMS61000-8K	EM-000332	EVERFINE PHOTO-E-INFO CO. LTD.	2017.09.08	
EMF Protection Network	VDHH9502	EM-000341	SCHWARZBECK	2018.01.11	
Semi-Anechoic Chamber (10m)	10m-SAC	EM-000460	Albatross	2019.06.17	