

Qierling (Beijing) Health Technology Co., Ltd.

TEST REPOR

SCOPE OF WORK EMC TESTING-SEE PAGE 2

REPORT NUMBER 201225117GZU-001

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Intertek Report No:	:	201225117GZU-001

Test standards

EN 55014-1:2017+A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN 55014-2:2015

Sample Description

Product	:	Air Purifiering Disinfector
Model No.	:	DS-X400N-A
Electrical Rating	:	100V-240V, 50Hz, 38W for model DS-X400N-A
Serial No.		Not Labeled
Date Received	:	25 December 2020
Date Test	:	15 January 2021-07 February 2021
Conducted		

Prepared and Checked By

enor

Elena Lei Engineer Approved By:

Heilen

Helen Ma Team Leader

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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	2.3	Test Result	
	2.2	Test Setup and Procedure	
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MHz	25 (2)		
8.2	EN	61000-4-6(Pursuant to EN 55014-2) Injected Current (0.15 MHz	то 230



1. TEST RESULTS SUMMARY

Test Item	Standard	Result
Continuous conducted disturbance voltage	EN 55014-1:2017+A11:2020	Pass
Conducted Disturbance at wired network ports	EN 55014-1:2017+A11:2020	N/A
Discontinuous conducted disturbance voltage	EN 55014-1:2017+A11:2020	Pass
Radiated disturbance(9kHz-30MHz)	EN 55014-1:2017+A11:2020	N/A
Radiated disturbance power	EN 55014-1:2017+A11:2020	Pass
Radiated disturbance(30MHz-1000MHz)	EN 55014-1:2017+A11:2020	N/A
Harmonic of current	EN IEC 61000-3-2:2019	Pass
Flicker	EN 61000-3-3:2013+A1:2019	Pass
ESD immunity	EN 55014-2: 2015 Reference: EN 61000-4-2:2009	Pass
Radiated EM field immunity	EN 55014-2:2015 Reference: EN 61000-4- 3:2006+A1:2008+A2:2010	N/A
EFT immunity	EN 55014-2:2015 Reference: EN 61000-4-4:2012	Pass
Surge immunity	EN 55014-2:2015 Reference: EN 61000-4-5:2014	Pass
Inject current immunity	EN 55014-2:2015 Reference: EN 61000-4-6:2014	Pass
Voltage dips and interruption immunity	EN 55014-2:2015 Reference: EN 61000-4- 11:2004	Pass

Remark:

1. The symbol "N/A" in above table means <u>N</u>ot <u>Applicable</u>.

2. When determining the test results, measurement uncertainty of tests has been considered.



2. EMC RESULTS CONCLUSION

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU Performed on the Air Purifiering Disinfector, Model: DS-X400N-A.

We tested the Air Purifiering Disinfector, Model: DS-X400N-A, to determine if it was in compliance with the relevant EN standards as marked on the Test Results Summary. We found that the unit met the requirements of EN 55014-1, EN IEC 61000-3-2, EN 61000-3-3, EN 55014-2 (EN 61000-4-2), EN 55014-2 (EN 61000-4-4), EN 55014-2 (EN 61000-4-6), EN 55014-2 (EN 61000-4-5), & EN 55014-2 (EN 61000-4-11) standards when tested as received. The worst case's test data was presented in this test report.

Remark: The report data is derived from 201225119GZU-005, the model DS-X400N-A in this report is the same as the DS-X400W model in report 201225119GZU-005 except that there is no WiFi function in DS-X400N-A.

The production units are required to conform to the initial sample as received when the units are placed on the market.



3. LABORATORY MEASUREMENTS

Configuration Information

Support Equipment:

N/A

Rated Voltage and frequency under test: Condition of Environment: 100-240 V~; 50 Hz Temperature: 22~28°C Relative Humidity:35~60% Atmosphere Pressure:86~106kPa

Notes:

1. The EMI measurements had been made in the operating mode produced the largest emission in the frequency band being investigated consistent with normal applications. An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. The EMS measurements had been made in the frequency bands being investigated, with the EUT in the most susceptible operating mode consistent with normal applications. The configuration of the test sample had been varied to achieve maximum susceptibility.

3. Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch All tests were performed at:

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 Except Radiated Disturbance and Radiated Susceptibility were performed at:

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

No.	Item	Measurement Uncertainty			
1 Conducted Emission (9 kHz-150 kHz) 2.79 dB		2.79 dB			
2	Conducted Emission (150 kHz-30 MHz)	2.55 dB			
3	Disturbance Power (30 MHz-300 MHz)	3.04 dB			
4	Radiated Emission (30 MHz-1 GHz)	4.80 dB			
5	Radiated Emission (1 GHz-6 GHz)	4.97 dB			
6	Radiated Emission (6 GHz-18 GHz)	4.89 dB			

4. Measurement Uncertainty

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with CISPR16-4-2:2011+A1:2014 +A2:2018.

The measurement uncertainty is given with a confidence of 95%, k=2.

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



4. EQUIPMENT USED DURING TEST

Conducted Disturbance-Mains Terminal (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM080-04	EMI receiver	ESCS30	R&S	1Y
EM031-04	EMI receiver	ESR3	R&S	1Y
EM006-06	LISN	ENV216	R&S	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	1Y
EM031-04-01	EMC32 software (CE)	V10.01.00	R&S	N/A

Click (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM008-02	Click Tester	DDA55	AFJ	1Y
EM008-02-01	Switch Box	SW04/32 CL55C	AFJ	1Y
EM006-04	LISN	ESH2-Z5	R&S	1Y
EM032-02	LISN	NSLK8128	SCHWARZBECK	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	1Y

Disturbance Power

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM080-05	EMI receiver	ESCI	R&S	1Y
EM081-04	Absorb Power Clamp	MDS-21	R&S	1Y
SA047-112	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	1Y

Harmonic Currents and Flicker (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM001-03	3-Phase Harmonic & Flicker Measuring System	Profline2145- 400	TESEQ	1Y
EM001-03- 01	AC Power Source	NSG1007	TESEQ	1Y
SA047-140	Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y

Electrostatic Discharge (1)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM077-04	ESD Simulator	NSG437	TESEQ	1Y



SA047-143 Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y
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Electrical Fast Transient/Burst (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM005-10	EFT Generator	NSG3025	TESEQ	1Y
EM005-10-01	Capacitive Coupling Clamp	CDN8014	TESEQ	1Y
SA047-140	Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y

Surge (3)

Equipment No.	Equipment	Equipment Model Mar		Calibration Interval
EM005-09	Surge/DIP Generator	NSG3040	TESEQ	1Y
SA047-140	Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y

Conducted Susceptibility (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM019-01	Conducted Immunity Testing System	NSG4070- 75	Teseq GmbH	1Y
EM019-01-01	Current Electromagnetic injection clamp	KEMZ801S	Teseq GmbH	1Y
EM019-01-02	Coupling&Decoupling Network	CDNM016	Teseq GmbH	1Y
EM019-01-03	6dB Attenuator	ATN6075	Teseq GmbH	1Y
EM019-03	Current Clamp	CIP 9136A	Teseq GmbH	1Y
SA047-140	Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y

Voltage Dips and Interruptions (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM005-09	Surge/DIP Generator	NSG3040	TESEQ	1Y
EM005-09-01	Voltage Regulator	INA6501	TESEQ	1Y
SA047-140	Digital Temperature-Humidity Recorder	AW5145Y	ASAIR	1Y

Radiated Susceptibility

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS LINDGREN	1Y
EM031-01	Signal generator	SMB100A	R&S	1Y
EM086-11	Power meter	NRP2	R&S	1Y
EM086-11- 01	Power sensor	NRP-Z91	R&S	1Y
EM046-01	Power Amplifier	80RF1000-300	MILMEGA	1Y
EM046-03	Power Amplifier	AS0860-75-45	MILMEGA	1Y
EM061-05	Log Per.	VULP 9118 E	SCHWARZBECK	2Y



	Broadband Antenna			
EM061-07	Stacked LogPer.	STLP 9149	SCHWARZBECK	2Y
EIVI001-07	Broadband Antenna	51LP 9149	JCHWARZBECK	21
EM034-01	Open Switch and	OSP120/1505.3009K12	R&S	1Y
EIVI034-01	Control Platform		ras	11
EM045-01-	EMC32 software	V10.01.00	R&S	1Y
01	(RE/RS)	V10.01.00	ras	1 T
	Digital			
SA047-118	Temperature-	RS210	YIJIE	1Y
	Humidity Recorder			





Detail of the equipment calibration due date:

Equipment No.	Cal. Due date
Conducted Distur	(DD-MM-YYYY)
Terminal (1)	Dalice-Ivialits
EM080-05	19/07/2021
EM006-05	07/06/2021
SA047-112	16/11/2021
EM004-04	21/01/2023
Conducted Distur	bance-Mains
Terminal (2)	07/01/0000
EM031-04	07/01/2022
EM006-06 SA047-111	06/09/2021 16/11/2021
EM004-03	21/01/2023
EM031-04-01	N/A
Conducted Distur	
Control Terminal	
EM080-05	19/07/2021
EM080-05-01	06/09/2021
SA047-112	16/11/2021
EM004-04	21/01/2023
Conducted Distur	bance-Load and
Control Terminal	
EM080-05	19/07/2021
EM005-06-01 SA047-112	06/09/2021 16/11/2021
SAU47-112	16/11/2021
EM004-04 Conducted Distur	21/01/2023
Terminal	bance-relection
EM080-05	19/07/2021
EM011-05	12/04/2021
EM011-06	12/04/2021
EM006-06	06/09/2021
SA047-112	16/11/2021
EM004-04	21/01/2023
Conducted Distur	bance-Antenna
Terminal	07/01/0000
EM031-04	07/01/2022
EM084-02	21/07/2021
EM041-01	05/01/2022 05/01/2022
EM041-02 SA047-111	16/11/2022
EM004-03	21/01/2023
Click (1)	21/01/2023
EM008-01	19/07/2021
EM006-06	06/09/2021
SA047-111	16/11/2021
EM004-03	21/01/2023
Click (2)	
EM008-02	15/11/2021
EM008-02-01	15/11/2021 19/07/2021
EM032-02	19/07/2021
SA047-111	16/11/2021
EM004-03	21/01/2023
Disturbance Pow	er 10/07/2021
EM080-05 EM081-04	19/07/2021 11/03/2021
SA047-112	16/11/2021
EM004-04	21/01/2023
	,, 2020

Equipment No. Cal. Due date (DD-MM-YYY) Radiated Disturbance (CDN Method) EM080-05 19/07/2021 EM003-02 15/11/2021 EM003-03 15/11/2021 EM003-01-05 06/09/2021 EM032-02-01 20/07/2021 EM032-02-02 20/07/2021 SA047-112 16/11/2021 EM003-04-04 21/01/2023 Radiated electromagnetic disturbances (9 kHz-30 MHz) EM061-04 8/03/2021 SA047-111 16/11/2021 EM004-03 21/01/2023 Radiated Disturbance (9 kHz-30 MHz) EM031-02 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/01/2021 EM031-02 16/10/2021 EM031-02 16/01/2021		Col Duo data
Radiated Disturbance (CDN Method) EM080-05 19/07/2021 EM080-05 19/07/2021 EM003-02 15/11/2021 EM003-03 15/11/2021 EM003-01-05 06/09/2021 EM032-02-01 20/07/2021 EM032-02-02 20/07/2021 SA047-112 16/11/2023 Radiated electromagnetic disturbances (9 kHz-30 MHz) EM031-04 07/01/2022 EM061-04 8/03/2021 SA047-111 16/11/2021 EM030-04 01/04/2021 EM030-04 10/04/2021 EM030-04 10/04/2021 EM031-02 16/10/2021 EM031-02-01 12/04/2021 EM031-02-01 N/A Radiated Disturbance (30 MHz-1 GHz) EM030-04 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 <td< th=""><th>Equipment No.</th><th>Cal. Due date</th></td<>	Equipment No.	Cal. Due date
Method) EM080-05 19/07/2021 EM003-02 15/11/2021 EM003-03 15/11/2021 EM003-01-05 06/09/2021 EM032-02-01 20/07/2021 EM032-02-02 20/07/2021 EM032-02-02 20/07/2021 EM032-02-02 20/07/2021 EM032-02-02 20/07/2021 EM04-04 21/01/2023 Radiated electromagnetic disturbances (9 kHz-30 MHz) EM031-04 07/01/2022 EM061-04 8/03/2021 SA047-111 16/11/2023 Radiated Disturbance (9 kHz-30 MHz) EM030-04 EM030-04 10/04/2021 EM031-02 16/10/2021 EM031-02-01 12/04/2021 EM031-02-01 N/A Radiated Disturbance (30 MHz-1 GHz) EM030-04 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 16/10/2021 EM031-02 18/09/2021 EM031-02 16/10/2021 EM031-02	Radiated Disturb	
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EM001-02 15/11/2021 SA047-111 16/11/2021 Harmonic Currents and Flicker (2) EM001-03 11/09/2021 EM001-03-01 11/09/2021 SA047-140 05/01/2022 EMF EM007-03 EM007-03 25/02/2022 SA047-112 16/11/2021 Induced Current Density (20 kHz-10 MHz) EM031-04 EM0031-04 07/01/2022 EM007-02 07/01/2022	Harmonic Curren	ts and Flicker (1)
SA047-111 16/11/2021 Harmonic Currents and Flicker (2) EM001-03 11/09/2021 EM001-03-01 11/09/2021 SA047-140 05/01/2022 EMF		
Harmonic Currents and Flicker (2) EM001-03 11/09/2021 EM001-03-01 11/09/2021 SA047-140 05/01/2022 EMF EM007-03 25/02/2022 SA047-112 16/11/2021 Induced Current Density (20 kHz-10 MHz) EM031-04 07/01/2022 EM0031-04 07/01/2022 EM007-02 07/01/2022	SA047-111	16/11/2021
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EM031-04 07/01/2022 EM007-02 07/01/2022		- 0.1010 (LO 1012
EM007-02 07/01/2022	EM031-04	07/01/2022
SA047-111 16/11/2021	EM007-02	07/01/2022
	SA047-111	16/11/2021

E and an an a set	Cal. Due date
Equipment No.	(DD-MM-YYYY)
Electrostatic Disc	harge (1)
EM077-04	15/04/2021 16/03/2021
SA047-133	16/03/2021
Electrostatic Disc	narge (2)
EM077-02	08/05/2021
SA047-133	16/03/2021
Electrical Fast Tra (1)	nsient/Burst
EM005-12	12/04/2021 15/04/2021
EM005-10-01	15/04/2021
	05/01/2022
Electrical Fast Tra (2)	
EM005-10	05/05/2021
EM005-10-01	15/04/2021
SA047-140	05/01/2022
Surge (2)	
EM005-08	19/07/2021
SA047-140	05/01/2022
Surge (3)	22/00/2021
EM005-09	22/06/2021
SA047-140	05/01/2022
Conducted Suscer EM046-04	10/12/2021
EM084-02	10/12/2021 21/07/2021
EM003-01-04	06/00/2021
EM003-01-05	06/09/2021
EM019-01-01	06/09/2021
EM019-03	19/07/2021
SA047-140	05/01/2022
Conducted Suscer	otibility (2)
EM019-01	12/04/2021
EM019-01-01	06/09/2021 06/09/2021
EM019-01-02	06/09/2021
EM019-01-03	06/09/2021
EM019-03	<u>19/07/2021</u> 05/01/2022
SA047-140	05/01/2022
Voltage Dips and (2)	Interruptions
EM005-09	22/06/2021 22/06/2021 05/01/2022
EM005-09-01	22/06/2021
SA047-140	05/01/2022
Radiated Suscepti	10/04/2021
EM030-04 EM031-01	10/04/2021 22/07/2021
EIVIU51-01	22/07/2021
EM086-11 EM086-11-01	15/11/2021
EM086-01	<u>15/11/2021</u> <u>19/03/2021</u>
EM046-01 EM046-03	06/09/2021
	11/10/2021
EM061-05	11/10/2021 11/10/2021
EM061-05 EM061-07	
EM061-07	/
EM061-07 EM034-01 EM045-01-01	
EM061-07 EM034-01 EM045-01-01 SA047-118	////2021
EM061-07 EM034-01 EM045-01-01 SA047-118 Power Frequency	/ / 21/07/2021 Magnetic Field
EM061-07 EM034-01 EM045-01-01 SA047-118 Power Frequency EM001-03	/ / 21/07/2021 Magnetic Field 11/09/2021
EM061-07 EM034-01 EM045-01-01 SA047-118 Power Frequency EM001-03 EM001-03-02	/ / 21/07/2021 Magnetic Field 11/09/2021
EM061-07 EM034-01 EM045-01-01 SA047-118 Power Frequency EM001-03 EM001-03-02 SA047-140	/ / 21/07/2021 Magnetic Field
EM061-07 EM034-01 EM045-01-01 SA047-118 Power Frequency EM001-03 EM001-03-02	/ / 21/07/2021 Magnetic Field 11/09/2021



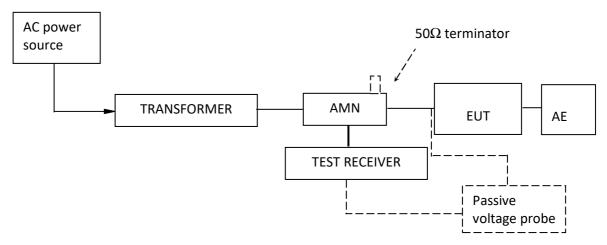
TEST REPORT

5. EMI TEST

5.1 EN 55014-1 Continuous Conducted Disturbance Voltage Test

Test Result: Pass

5.1.1 Block Diagram of Test Setup



5.1.2 Test Setup and Procedure

The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50 Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.4m high non-metallic table above earthed ground plane(Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

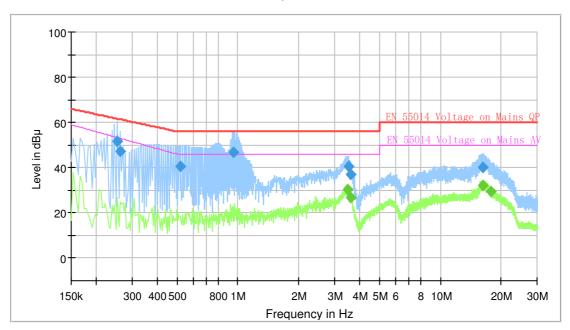
When measurements of disturbance are being made, the appliance shall be operated under the conditions defined in Annex A.



5.1.3 Test Data and curve

At mains terminal: Tested Wire: Live

Operation Mode: Work at maximum power



Full Spectrum

Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dB¦ÌV)	(dB¦ÌV)	(dB¦ÌV)	(dB)	Time	(kHz)			(dB)
					(ms)				
0.254000	51.81		61.63	9.82	1000.0	9.000	L1	ON	9.6
0.262000	47.09		61.37	14.28	1000.0	9.000	L1	ON	9.6
0.522000	40.59		56.00	15.41	1000.0	9.000	L1	ON	9.6
0.950000	46.93		56.00	9.07	1000.0	9.000	L1	ON	9.7
3.494000		30.35	46.00	15.65	1000.0	9.000	L1	ON	9.7
3.506000	40.36		56.00	15.64	1000.0	9.000	L1	ON	9.7
3.610000	36.98		56.00	19.02	1000.0	9.000	L1	ON	9.7
3.614000		26.60	46.00	19.40	1000.0	9.000	L1	ON	9.7
16.134000	40.00		60.00	20.00	1000.0	9.000	L1	ON	10.3
16.206000		32.35	50.00	17.65	1000.0	9.000	L1	ON	10.3
17.746000		29.46	50.00	20.54	1000.0	9.000	L1	ON	10.2

Remark:

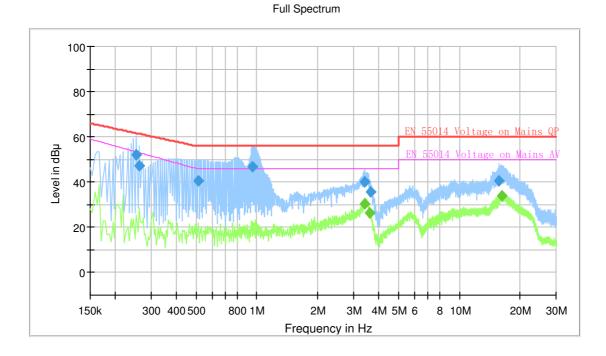
- 1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Level (dB μ V) = Corr. (dB) + Read Level (dB μ V)
- 3. Delta Limit (dB) = Level (dB μ V)-Limit (dB μ V)



TEST REPORT

Tested Wire: Neutral

Operation Mode: Work at maximum power



Final_Result

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.254000	52.08		61.63	9.55	1000.0	9.000	Ν	ON	9.6
0.262000	47.36		61.37	14.01	1000.0	9.000	Ν	ON	9.6
0.514000	40.56		56.00	15.44	1000.0	9.000	Ν	ON	9.7
0.950000	46.94		56.00	9.06	1000.0	9.000	Ν	ON	9.7
3.414000	40.33		56.00	15.67	1000.0	9.000	Ν	ON	9.7
3.422000		30.29	46.00	15.71	1000.0	9.000	Ν	ON	9.7
3.614000		26.48	46.00	19.52	1000.0	9.000	Ν	ON	9.7
3.634000	35.81		56.00	20.19	1000.0	9.000	Ν	ON	9.7
15.754000	40.36		60.00	19.64	1000.0	9.000	Ν	ON	10.3
16.214000		33.84	50.00	16.16	1000.0	9.000	Ν	ON	10.3

Remark:

- 1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Level (dB μ V) = Corr. (dB) + Read Level (dB μ V)
- 3. Delta Limit (dB) = Level (dBµV)-Limit (dBµV)

At load/control terminal:

Not Applicable.



TEST REPORT

5.2 EN 55014-1 Conducted Common Mode (Asymmetric Mode) Disturbance at wired network Ports

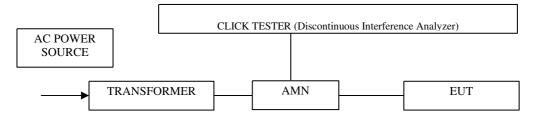
Test Result: Not Applicable

Remark: The test only apply to balanced unscreened ports intended for connection to unscreened balanced pairs

5.3 EN 55014-1 Discontinuous Conducted Disturbance Voltage

Test Result: Pass

5.3.1 Block Diagram of Test Setup



5.3.2 Test Setup and Procedure

The EUT was placed on a 0.8m high non-metallic table in shielded room, the wall of shielded room used as Ground Reference Plane (GRP), and keeps a distance of at least 0.8m from any of the other metallic surface.

The EUT was connected to an artificial mains network and at a distance of 0.8m from it, the excess lead of EUT was bundled with a length of 0.3m to 0.4m parallel to the main lead. The number of counted clicks above the permitted limit for continuous interference and their duration, spacing and rate were measured during the observation time. When relevant, a permitted(relaxed) limit for clicks was calculated and a second measurement was performed. Determination of compliance with the permitted limit according to the upper quartile method was applied. The frequency 150kHz, 500 kHz, 1.4 MHz and 30 MHz was checked.

When measurements of disturbance are being made, the appliance shall be operated under the conditions defined in Annex A.



5.3.3 Test Data and curve

Frequency (MHz)	0.15	0.50	1.40	30.00
Permitted limit for continuous	66	56	56	60
interference (dBµV)				
Short Clicks [T<10ms]	0	0	0	0
Mid. Clicks [10ms <t<20ms]< td=""><td>0</td><td>0</td><td>0</td><td>0</td></t<20ms]<>	0	0	0	0
Long Clicks [T>20ms]	0	0	0	0
Total clicks (number)	0	0	0	0
Switching operation (number)				
Factor				
Observation time (min.)	120			
Click rate, N	0.00	0.00	0.00	0.00
Value to be added (dB)				
Counted clicks allowed to exceed the				
permitted limit (number)				
Permitted limit for clicks (dBµV)				
Counted clicks exceeding the limit				
(number)				
Complies with the limit (Pass/Fail)	Pass	Pass	Pass	Pass

The appliance was deemed to comply with the limits if fulfilling the three conditions below:

– the click rate is not more than 5.

- none of the caused clicks has a duration longer than 20 ms.

- 90 % of the caused clicks have a duration less than 10 ms.

5.4 EN 55014-1 Radiated Disturbance (9 kHz-30 MHz)- Magnetic field induced current method

Test Result: Not Applicable

Remark: The test only applies to induction cooking appliances.

5.5 Radiated Disturbance (9 kHz-30 MHz)- Magnetic field strength method

Test Result: Not Applicable

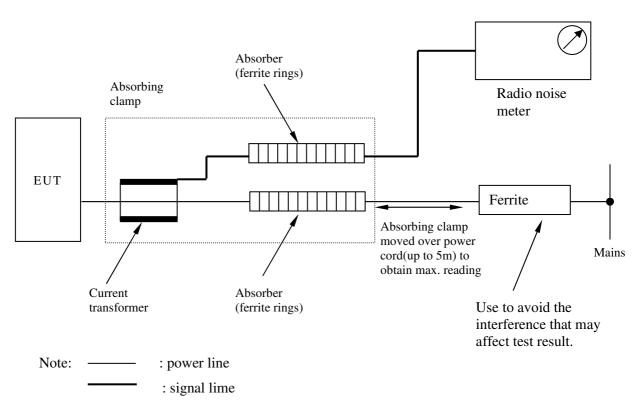
Remark: The test only applies to induction cooking appliances.

5.6 EN 55014-1 Radiated Disturbance Power

Test Result: Pass



5.6.1 Block Diagram of Test Setup



5.6.2 Test Setup and Procedure

The disturbance power was measured with the EUT in a shielded room. The height of the table shall be 0,1 m \pm 0,025 m for appliances primarily intended to be positioned on the floor in normal use, and 0,8 m \pm 0,05 m for other appliances. The EUT was placed on a non-metallic table at least 0.8m from other metallic surface and the mains lead of EUT was extended to about 6m long. The auxiliary lead longer than 0.25m but shorter than twice length of absorbing clamp was extend to twice length of clamp and those longer than twice length was extend to 6 meters.

The absorbing clamp was moved along the lead to obtain maximum disturbance. The EUT was set to achieve the maximum emission level, and for each point which appears a relevant high emission level, the absorbing clamp was moved around the lead to get the maximum disturbance value.

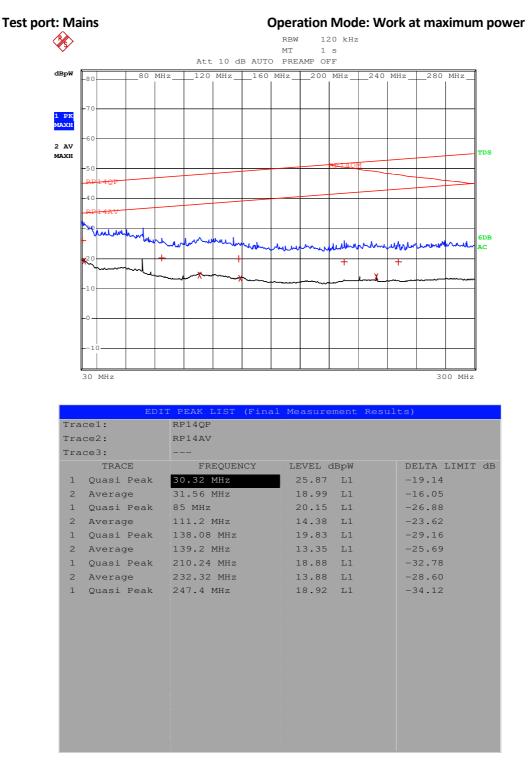
The bandwidth of test receiver was set at 120 kHz. The frequency range from 30MHz to 300MHz was checked.

When measurements of disturbance are being made, the appliance shall be operated under the conditions defined in Annex A.



TEST REPORT

5.6.3 Test Data and curve



The measurement quasi-peak data of disturbance power is lower than applicable limit reduced by the margin (0 to 10dB) at frequency range 200 to 300 MHz and the maximum clock frequency is less than 30MHz



TEST REPORT

5.7 EN 55014-1 Radiated Disturbance(30MHz-1000MHz)

Test Result: Not Applicable

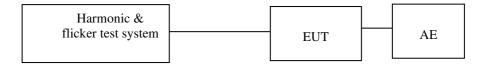
Remark:

⊠ Radiated disturbance shall not be conducted, if the measurement quasi-peak data of disturbance power is lower than applicable limit reduced by the margin (0 to 10dB) at frequency range 200 to 300 MHz and the maximum clock frequency is less than 30MHz.

6. Harmonics of current

Test Result: Pass

6.1 Block Diagram of Test Setup



6.2 Test Setup and Procedure

Harmonics of the fundamental current were measured up to 40 order harmonics using a digital power meter with an analogue output and frequency analyser which was integrated in the harmonic & flicker test system. The measurements were carried out under steady conditions.

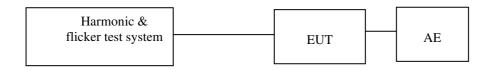
⊠This product is not defined as lighting equipment, and rated power is less than 75W, therefore, no limit applies according to EN 61000-3-2.



7. Flicker

Test Result: Pass

7.1 Block Diagram of Test Setup



7.2 Test Setup and Procedure

7.2.1 Definition

Flicker:	impression of unsteadiness of visual sensation induced by a lighting stimulus whose luminance or spectral distribution fluctuates with time.
Pst:	Short-term flicker indicator The flicker severity evaluated over a short period (in minutes); Pst=1 is the conventional threshold of irritability
Plt:	long-term flicker indicator; the flicker severity evaluated over a long period (a few hous). Using successive Pst valuse.
dc:	the relative steady-state voltage change
dmax:	the maximum relative voltage change
d(t):	the value during a voltage change

7.2.2 Test condition

The EUT was set to produce the most unfavourable sequence of voltage changes.

⊠This product is unlikely to produce significant voltage fluctuations and flicker by examination of the circuit diagram and specification of it. Therefore, it is deemed to fulfill the relevant standard without testing.



TEST REPORT

8. EMS TEST

Performance Criteria:

- Criterion A: The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permission loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B: The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permission loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description, and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C: Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instruction for use.

Test Item	Operation mode
ESD immunity	Fan speed high
Radiated EM field immunity	Fan speed high
EFT immunity	Fan speed high
Surge immunity	Fan speed high
Inject current immunity	Fan speed high
Voltage dips and interruption immunity	Fan speed high

Operation mode of EMS test:

Note: "N/A" means Not Applicable in below text.



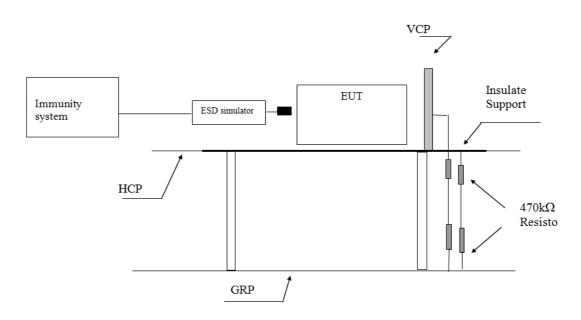
TEST REPORT

8.1 EN 61000-4-2(Pursuant to EN 55014-2) Electrostatic Discharge Immunity

Performance criterion: B

Test Result: Pass

8.1.1 Block Diagram of Test Setup



Note: HCP means Horizontal Coupling Plane,

VCP means Vertical Coupling Plane

GRP means Ground Reference Plane

8.1.2 Test Setup and Procedure

The EUT was put on a 0.8m high wooden table 0.1m high for floor standing equipment standing on the ground reference plane (GRP) 3m by 2m in size, made by iron 1.0 mm thick.

A horizontal coupling plane(HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size & HCP were constructed from the same material type & thickness as that of the GRP, and connected to the GRP via a 470k Ω resistor at each end.

The distance between EUT and any of the other metallic surface excepted the GRP, HCP & VCP was greater than 1m.

The EUT was arranged and connected according to its functional requirements.

Direct static electricity discharges were applied only to those points and surface which were accessible to personnel during normal usage.

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TEST REPORT

On each preselected points 10 times of each polarity single discharge were applied. The time interval between successive single discharges was at least 1s.

The ESD generator was held perpendicular to the surface to which the discharge was applied. The discharge return cable of the generator was kept at a distance of 0.2m whilst the discharge was being applied. During the contact discharges, the tip of the discharge electrode was touched the EUT before the discharge switch was operated. During the air discharges, the round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT.

Indirect discharge was conducted to objects placed near the EUT, simulated by applying the discharges of the ESD generator to a coupling plane, in the contact discharge mode.

After each discharge, the ESD generator was removed from the EUT, the generator was then retriggered for a new single discharge. For ungrounded product, a grounded carbon fibre brush with bleeder resistors ($2\times470 \text{ k}\Omega$) in the grounding cable was used after each discharge to remove remnant electrostatic voltage.

For air discharge, a minimum of 10 single air discharges were applied to the selected test point for each such area.



8.1.3 Test Result

Direct Application of ESD

Direct Contact Discharge

Applied Voltage (kV)	No. of Discharge for each point	Result (Pursuant to EN 55014-2)	Discharged Points	
4	20	N/A	Accessible metal parts of the EUT	
			Conductive substrate with coating which is not declared to be insulating	

Direct Air Discharge

Applied Voltage	No. of Discharge for	Result	Discharged Points
(kV)	each point	(Pursuant to EN 55014-2)	
8	20	Pass	All accessible points where contact discharge cannot be applied such as Displays, Indicators light, Keyboard, Button, Switch, Knob, Air gap, Slots, Hole and so on

Indirect Application of ESD

Horizontal Coupling Plane under the EUT

Applied Voltage	No. of Discharge for	Result	Discharged Point
(kV)	each point	(pursuant to EN 55014-2)	
4	20	N/A	At the front edge of each HCP opposite the centre point of each unit of the EUT

Vertical Coupling Plane beside the EUT

Applied Voltage (kV)	No. of Discharge for each point	Result (pursuant to EN 55014-2 criterion B)	Discharged Point
4	20	Pass	The centre of the vertical edge of the coupling plane



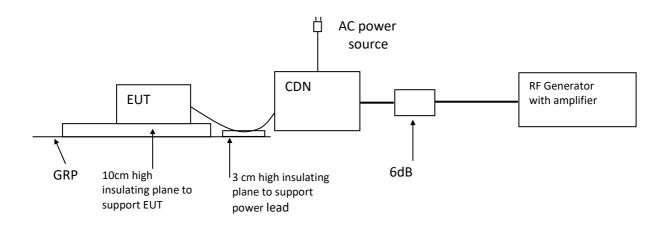
TEST REPORT

8.2 EN 61000-4-6(Pursuant to EN 55014-2) Injected Current (0.15 MHz to 230 MHz)

Performance criterion: A

Test Result: Pass

8.2.1 Block Diagram of Test Setup



8.2.2 Test Setup and Procedure

The EUT was placed on an insulating support of 0.1m height above a ground reference Plane, arranged and connected to satisfy its functional requirement.

All relevant cables were provided with the appropriate coupling and decoupling devices at a distance between 0.1m and 0.3m from the projected geometry of the EUT on an insulating support of 0.03m height above the ground reference plane.

Test voltage was verified before each testing though power meter combined in the RF generator with AMP.

Dwell time was set to 3s and step was set as 1% to keep sufficient response time for EUT. The frequency from 0.15MHz to 230MHz was checked.

Port:	Frequency (MHz)	Level (Pursuant to EN55014-2)	Result
A.C. Power Lines	0.15 to 230	3V (r.m.s.)	Pass
D.C. Power Lines	0.15 to 230	1V (r.m.s.)	N/A
Signal Lines	0.15 to 230	1V (r.m.s.)	N/A
Control Lines	0.15 to 230	1V (r.m.s.)	N/A

8.2.3 Test Result



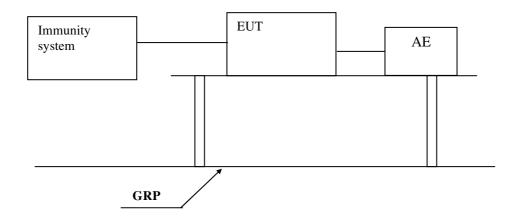
TEST REPORT

8.3 EN 61000-4-4(Pursuant to EN 55014-2) Electrical Fast Transient/Burst

Performance criterion: B

Test Result: Pass

8.3.1 Block Diagram of Test Setup



8.3.2 Test Setup and Procedure

The EUT was placed on a 0.1m high wooden table, standing on the ground reference plane 3m by 2m in size, made by steel 1mm thick.

The distance between the EUT and any other of the metallic surface except the GRP was greater than 0.5m.

The mains lead excess than 0.5m was folded to avoid a flat coil and situated at a distance of 0.1m above the ground reference plane to insure the distance between the coupling device and the EUT was 0.5m.

The EUT was arranged and connected to satisfy its functional requirement and supplied by the coupling-decoupling network.

Level (Pursuant to EN55014-2)	Polarity	A.C. Power supply line and protective earth terminal	D.C. Power Lines, Signal Line & Control Line
0.5kV	+	N/A	N/A
0.5kV	-	N/A	N/A
1kV	+	Pass	N/A
1kV	-	Pass	N/A

8.3.3 Test Result

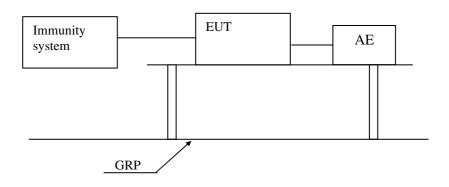


TEST REPORT

8.4 EN 61000-4-5(Pursuant to EN 55014-2) Surge Immunity

Performance criterion: B Test Result: Pass

8.4.1 Block Diagram of Test Setup



8.4.2 Test Setup and Procedure

The surge was applied to the EUT power supply terminals via the capacitive coupling network.

Decoupling networks were required in order to avoid possible adverse effects on equipment not under test that might be powered by the same lines and to provide sufficient decoupling impedance to the surge wave so that the specified wave might be developed on the lines under test.

The EUT was arranged and connected according to its functional requirements.

The EUT was placed on a 0.1m high wooden support above the GRP), supplied by the coupling-decoupling network, and arranged and connected to satisfy its functional requirement. The power cord between the EUT and the coupling/decoupling network was less than 2 meters.

Level (Pursuant to EN 55014-2)		Result
Between Phase And Phase:	1kV	N/A
Between Phase And Neutral:	1kV	Pass
Between Phase And Earth:	2kV	N/A
Between Neutral And Earth:	2kV	N/A

8.4.3 Test Result

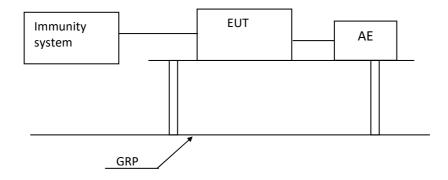


TEST REPORT

8.5 EN 61000-4-11(Pursuant to EN 55014-2) Voltage Dips and Interruptions

Performance criterion: C Test Result: Pass

8.5.1 Block Diagram of Test Setup



8.5.2 Test Setup and Procedure

The EUT was placed on an insulating support of 0.8m height, standing on a ground reference plane, and arranged and connected to satisfy its functional requirement

The test was performed with the EUT connected to the test generator with the shortest power supply cable as specified by the EUT manufacturer.

The EUT was tested for each selected combination of test level and duration with a sequence of three dips/interruptions with intervals of 10 s minimum. Each representative mode of operation was tested.

Abrupt changes in supply voltage was occur at zero crossings of the voltage.

8.5.3 Test Result

Test condition (Pursuant to EN 55014-2)					
Test Level in %U _T	50 Hz 60 Hz			Hz	
	Duration	Result	Duration	Result	
0	0.5	Pass	0.5	N/A	
40	10	Pass	12	N/A	
70	25	Pass	30	N/A	

Remark: UT is the rated voltage for the equipment.



TEST REPORT

8.6 EN 61000-4-3(Pursuant to EN 55014-2) Radiated Electromagnetic Field Immunity

Performance criterion: A Test Result: **Not Applicable Remark:**

Containing electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15 MHz



TEST REPORT

9. APPENDIX I - PHOTOS OF TEST SETUP











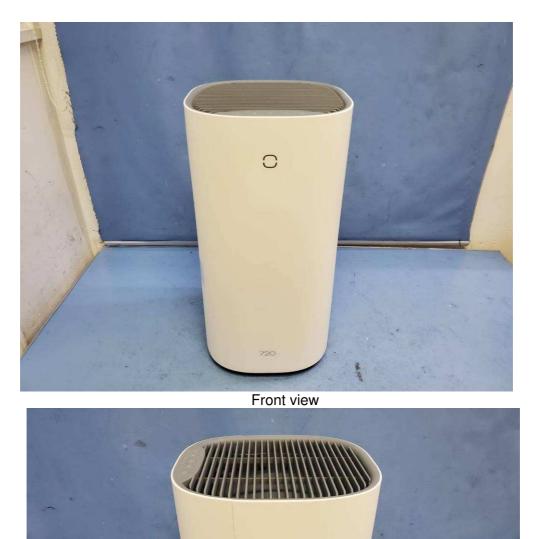






TEST REPORT

10. APPENDIX II – PHOTOS OF EUT







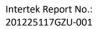
TEST REPORT



Left side view



Back view







Air outlet; control panel



Remove the filter



TEST REPORT



Appliance view



PM2.5 sensor cover



TEST REPORT



PM2.5 sensor position



PM2.5 sensor



TEST REPORT



Bottom view



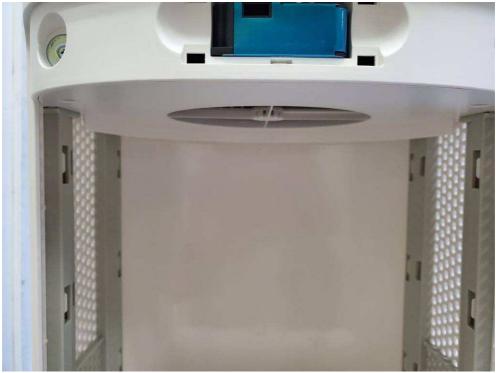
Inside view



TEST REPORT



Appliance inlet view



Air inlet



TEST REPORT



Air inlet; UV lamp position



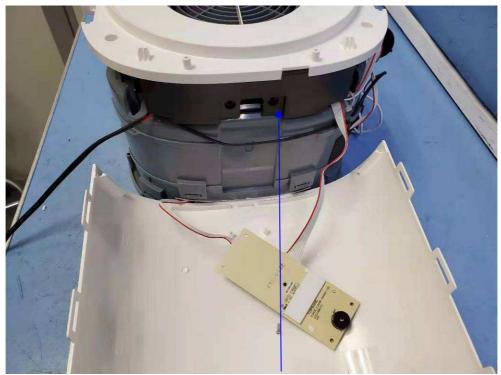
UV lamp PCB



TEST REPORT



UV lamp



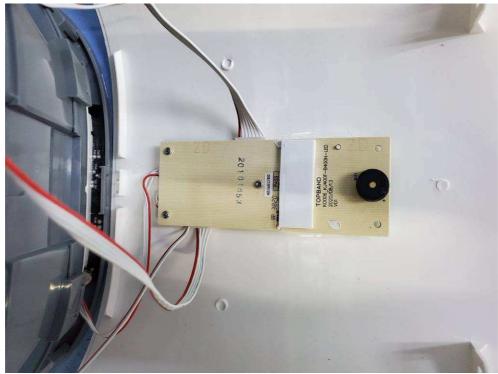
Main PCB Box position



TEST REPORT



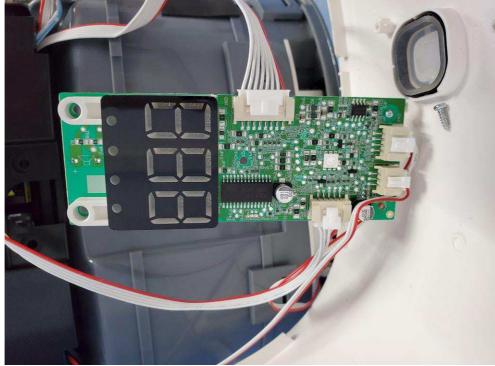
Display PCB, Main PCB Box



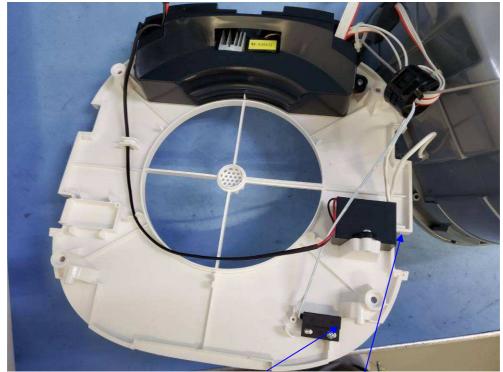
Display PCB



TEST REPORT



Display PCB



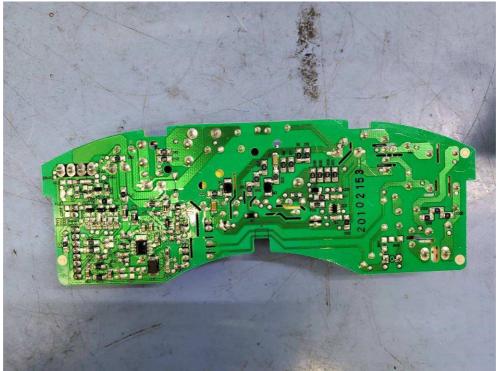
Hall sensor, Plasma generator



TEST REPORT



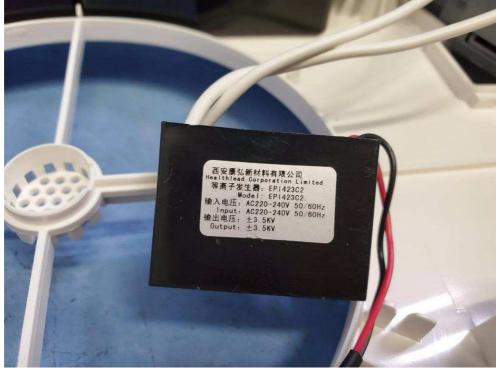
Main PCB



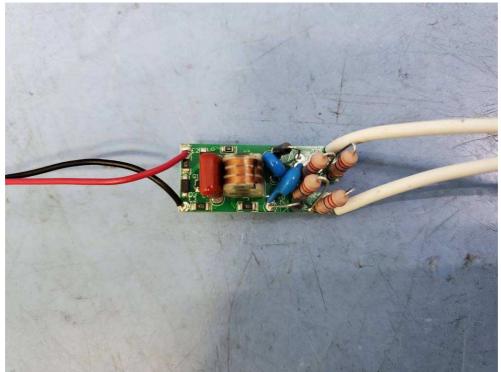
Main PCB



TEST REPORT



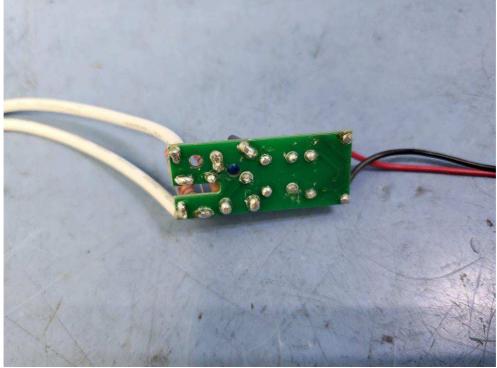
Plasma generator



Plasma generator



TEST REPORT



Plasma generator



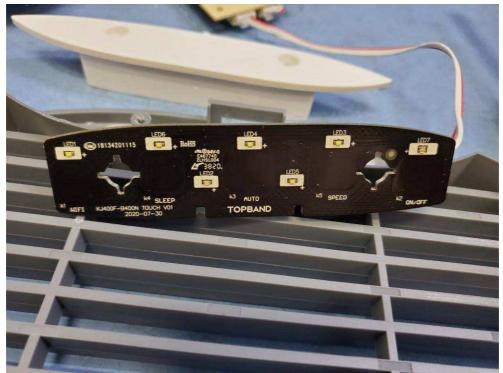
Inner view



TEST REPORT



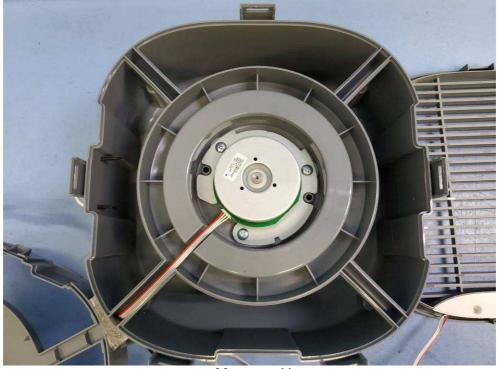
Control PCB



Cpntrol PCB



TEST REPORT



Motor position

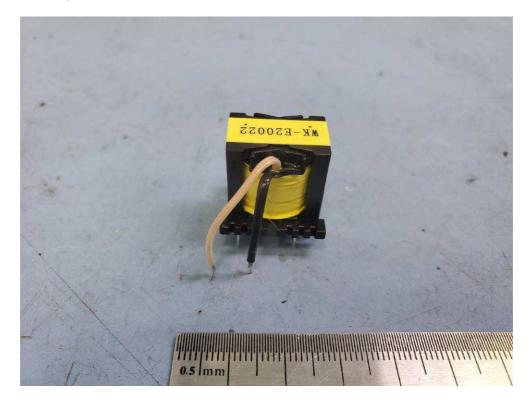


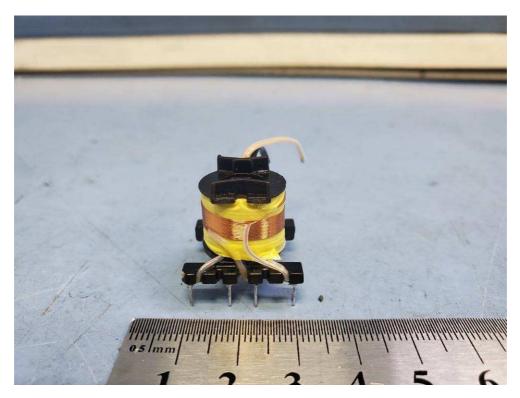
Motor



TEST REPORT

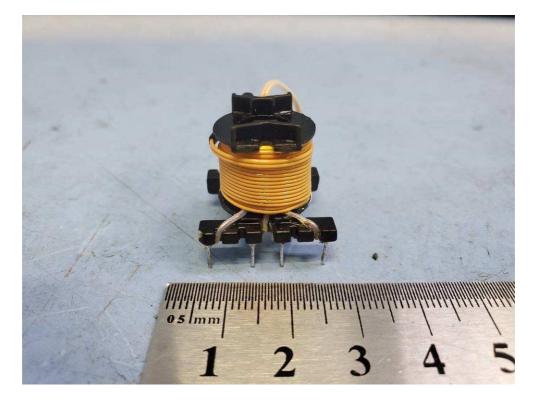
Below photo for DS-X400W transformer on Main PCB:

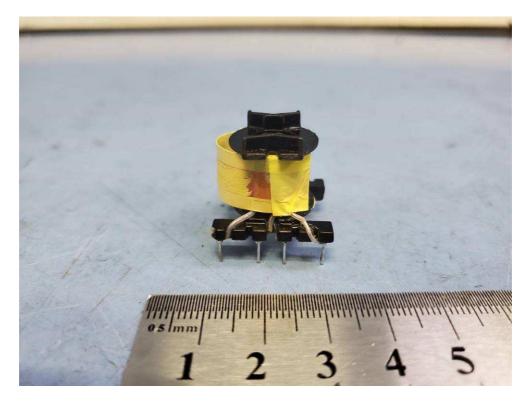






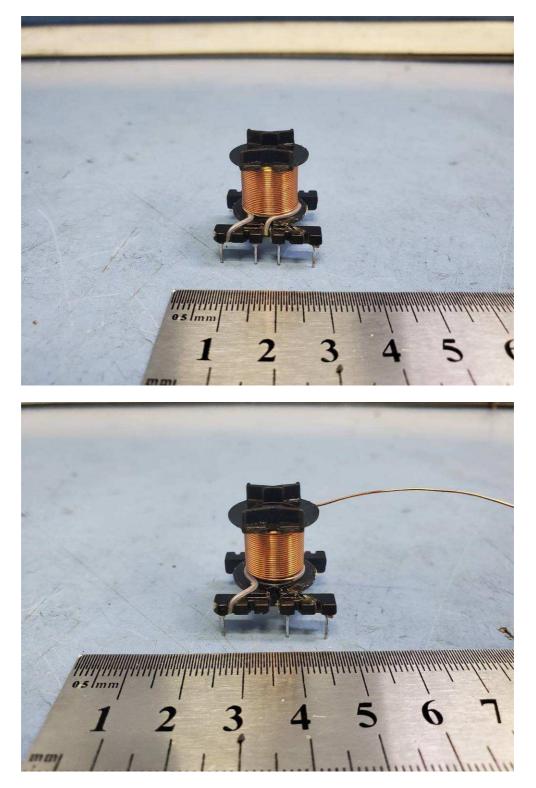
TEST REPORT







TEST REPORT



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