

# EMC Mark VERIFICATION

No. GZEMC1004009

# **Equipment**

Type of equipment

Electronic convertor for LED

Brand name

FAGIL RISE

Type / Model

SLP03SS; SLP03SS1; SLP01SS

Manufacturer

Eaglerise Electric & Electronic (Foshan)

Co. Ltd.

Manufacturing site

Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District, Foshan City, Guangdong Province, P.R. China

# **Standards**

**TEST REPORTS** 

EN 55015:2006+A1:2007+A2:2009

EN 61000-3-2:2006 EN 61000-3-3:2008

EN 61547:1995 + A1:2000

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Report No.: JGZ0512204-1R2

# SUMMARY OF RESULTS

We confirm that the product without reasonable doubt will fulfil the requirements concerning electromagnetic compatibility according to the above mentioned standards harmonised with the EMC Directive 2004/108/EC.

With accomplishing factory inspection this verification give the above mentioned manufacturer the right to use the Intertek EMC mark on the above mentioned product/s.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Date of issue: 27 April, 2010

Yannie Wang

Assistant Manager, EMC





Intertek Legal Entity: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Address: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, China Tel / Fax: 86-20-8213 9688/86-20-3205 7538

# **Test Verification of Conformity**

On the basis of the referenced test report(s), the sample(s) of the below product has been found to comply with the relevant harmonized standard(s) to the directive(s) listed on this verification at the time the tests were carried out. The manufacturer may indicate compliance to said directive(s) by signing a DoC himself and applying the CE-marking to products identical to the tested sample(s). In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable directive(s) and shall consider changes of the standard(s) if relevant. Additional requirements may be applicable such as additional directives or local laws.

**Applicant Name & Address** 

: Eaglerise Electric & Electronic (Foshan) Co., Ltd. Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District, Foshan City, Guangdong Province, P. R. China

Product(s) Tested

: Electronic convertor for LED

Ratings and principal characteristics

Input: 100-240 VAC; 50/60 Hz; SLP01SS: 0,04 A; SLP03SS; SLP03SS1: 0,08 A Output: (refer to Annex to Test Verification of Conformity)

Model(s)

: SLP03SS: SLP03SS1; SLP01SS

**Brand name** 

FAGILRISE

Relevant Standard(s) / Specification(s) / Directive(s)

: EN 55015: 2006+A1:2007+A2:2009/ Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61000-3-2: 2006/ Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3: 2008/ 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

EN 61547:1995+A1: 2000/ Equipment for general lighting purposes —EMC immunity requirements

EMC Directive 2004/108/EC

Verification Issuing Office Name & Address

: Same as Legal Entity

Verification/Report Number(s)

: JGZ0512204-1R2/ JGZ0512204-1R2

Note 1: This verification is part of the full test report(s) and should be read in conjunction with it.

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Note 2: This verification supersedes previous verification with Verification number JGZ0512204-1R1 dated 17 September 2007.

CE

Name: Yannie Wang

Position: Assistant Manager

Date: 27 April, 2010



# Annex to Test Verification of Conformity

This is an Annex to Test Verification of Conformity with Verification/Report Number(s): JGZ0512204-1R2/ JGZ0512204-1R2. The issuing office is Intertek Testing Services Shenzhen Ltd. Guangzhou Branch (Address: Block E, No, 7-2 Guang Dong Software science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou).

Ratings and principal characteristics

Output:

SLP03SS: Constant current - DC 350 mA; 0,5 V - 10 V

Constant voltage – DC 12 V; I ≤ 300 mA

SLP03SS1: Constant current - DC 700 mA; 0,5 V - 4 V

Constant voltage – DC 6 V; I ≤ 650 mA

SLP01SS: Constant current - DC 350 mA; 0,5 V - 4 V

Constant voltage – DC 6 V; I ≤ 300 mA

Built-in SELV; ta: 50 °C; 110°C thermally protected; SLP03SS; SLP01SS; tc 75 °C; SLP03SS1; tc 85 °C

# Note 1: This annex is part of the Test Verification of Conformity and should be read in conjunction with it.

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Note 2: This annex to verification supersedes previous annex to verification with Verification number JGZ0512204-1R1 dated 17 September 2007.

Signature

Name: Yannie Wang

Position: Assistant Manager

Date: 27 April, 2010



# TEST REPORT

Applicant Name &

: Eaglerise Electric & Electronic (Foshan) Co., Ltd.

Address

Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District, Foshan

City, Guangdong Province, P. R. China

Manufacturing Site

: Eaglerise Electric & Electronic (Foshan) Co., Ltd.

Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District, Foshan

City, Guangdong Province, P. R. China

Sample Description

Product

: Electronic convertor for LED

Model No.

: SLP03SS; SLP03SS1; SLP01SS

**Electrical Rating** 

: Input: 100-240 VAC; 50/60 Hz; SLP01SS: 0,04 A; SLP03SS; SLP03SS1: 0,08

A, Output: (detail refer to page 4)

Test standards

EN 55015: 2006+A1 :2007+A 2:2009

EN 61000-3-2: 2006 EN 61000-3-3: 2008 EN 61547: 1995+A1: 2000

Test Result

Pass

Conclusion

The submitted samples complied with the above EMC standards.

Remark

: When determine the test result, measurement uncertainty has been considered.

Prepared and Checked By:

Approved By:

Fvan Tu

Engineer

Intertek Guangzhou

Carrie Chen

Senior Project Engineer

Intertek Guangzhou

27 April 2010 Date

Signature

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The test report only allows to be revised within three years from its original issued date unless further standard or the requirement was noticed.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, China
Tel / Fax: 86-20-8213 9688/86-20-3205 7538

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# 1

# **TEST RESULTS SUMMARY**

Test Item	Standard	Result
Continuous conducted disturbance voltage	EN 55015: 2006+A1:2007+A2:2009	Pass
Radiated electromagnetic disturbance (9 KHz -30 MHz)	EN 55015: 2006+A1:2007+A2:2009	Pass
Radiated Electromagnetic Disturbance (30 MHz -300 MHz)	EN 55015: 2006+A1:2007+A2:2009	Pass
Harmonic of current	EN 61000-3-2: 2006	Pass
Flicker	EN 61000-3-3 : 2008	Pass

Remark: 1. The symbol "N/A" in above table means Not Applicable.

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

# **EMC Results Conclusion**

(with Justification)

RE: EMC Testing Pursuant to EMC Directive 2004/108/EC Performed on the Electronic convertor for LED, Models: SLP03SS.

We tested the Electronic convertor for LED, Model: SLP03SS, to determine if they were in compliance with the relevant EN standards as marked on the Test Results Summary. We found that the unit met the requirement of EN 55015, EN 61000-3-2, EN 61000-3-3, standards when tested as received. The worst case's test data was presented in this test report. Test item Radiated electromagnetic disturbance was subcontracted.

The models have same circuit diagram and same casing. Only technical data of several components; output voltage and output current are different.

Output:

SLP03SS: Constant current – DC 350 mA; 0,5 V – 10 V

Constant voltage – DC 12 V;  $I \le 300 \text{ mA}$ 

SLP03SS1: Constant current – DC 700 mA; 0,5 V – 4 V

Constant voltage – DC 6 V;  $I \le 650 \text{ mA}$ 

SLP01SS: Constant current – DC 350 mA; 0,5 V – 4 V

Constant voltage – DC 6 V;  $I \le 300 \text{ mA}$ 

Built-in SELV; ta: 50 °C; 110°C thermally protected; SLP03SS; SLP01SS: tc 75 °C; SLP03SS1: tc 85 °C

This report is the revision of the previous test report JGZ0512204-1R1 dated 17 September 2007 and shall be used together with it.

The applicable standards have been updated: the EN 55015 standard has been updated from EN 55015: 2000+A1: 2001+A2: 2002 to EN 55015: 2006+A1:2007+A2: 2009; the EN 61000-3-2 standard has been updated from EN 61000-3-2: 2000+A2: 2005 to EN 61000-3-2: 2006; the EN 61000-3-3 standard has been updated from EN 61000-3-3: 1995+A1: 2001+A2: 2005 to EN 61000-3-3: 2008.

Based on judgement, continuous conducted disturbance voltage, radiated electromagnetic disturbance were selected for testing.

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**

**Equipment Under Test (EUT)**: Electronic convertor for LED

Model: SLP03SS

Serial No. Not Labelled

**Support Equipment**: Resistance provided by Intertek

**Rated Voltage:** 100-240 VAC; 50/60 Hz

**Condition of Environment:** Temperature : 15~25°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.

#### 4 EMITEST

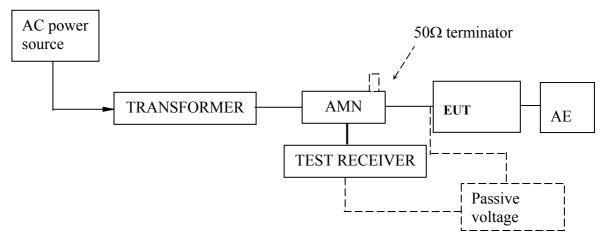
## 4.1 EN 55015 Continuous Conducted Disturbance Voltage Test

# **Test Result: Pass**

4.1.1 Used Test Equipment

Equipment No.	Equipment	Model	Manufacturer
EM080-05	EMI receiver	ESCI	R&S
EM006-06	LISN	ENV216	R&S
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu

#### 4.1.2 Block Diagram of Test Setup



# 4.1.3 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 provide a  $50\Omega$  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 EUT was placed on a 0.8m high non-metallic table above a metallic plane, and 0.4m from wall of shielded room which is considered as Ground Reference Plane (GRP) (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 200Hz in the frequency range from 9kHz to 150KHz, and 9kHz in the frequency range from 150kHz to 30MHz.

# 4.1.4 Test Data

At main terminal: Pass

Tested Wire: Live Operation Mode: EUT on

	·					
Frequency	Quasi-Peak		Frequency Quasi-Peak		Avei	age
[MHz]	Disturbance	Permitted	Disturbance	Permitted		
	level	lim it	level	1im it		
	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]		
0.009	< 100	110.0				
0.050	< 80	90.0				
0.100	<73	83.7				
0.160	< 55	65.5	<45	55.5		
0.240	< 52	62.1	<42	52.1		
0.550	<46	56.0	<36	46.0		
1.000	<46	56.0	< 36	46.0		
1.400	<46	56.0	<36	46.0		
2.000	<46	56.0	<36	46.0		
3.500	<46	56.0	<36	46.0		
6.000	< 50	60.0	<40	50.0		
10.000	< 50	60.0	<40	50.0		
22.222	< 50	60.0	45.06	50.0		
30.000	< 50	60.0	<40	50.0		

Tested Wire: Neutral Operation Mode: EUT on

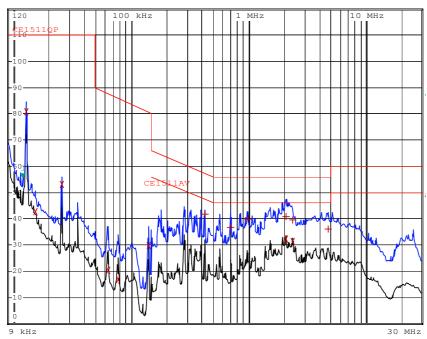
Frequency	Quasi-Peak		Avei	rage
[ M H z]	Disturbance	Permitted	Disturbance	P er m it te d
	le v e l	lim it	level	1im it
	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]
0.009	< 100	110.0		
0.050	< 80	90.0		
0.100	<73	83.7		
0.160	< 55	65.5	<45	55.5
0.240	<52	62.1	<42	52.1
0.550	<46	56.0	< 36	46.0
1.000	<46	56.0	<36	46.0
1.400	<46	56.0	<36	46.0
2.000	<46	56.0	<36	46.0
3.500	<46	56.0	<36	46.0
6.000	< 50	60.0	<40	50.0
10.000	< 50	60.0	<40	50.0
22.222	< 50	60.0	45.06	50.0
30.000	< 50	60.0	<40	50.0

At load/control terminal: Not Applicable

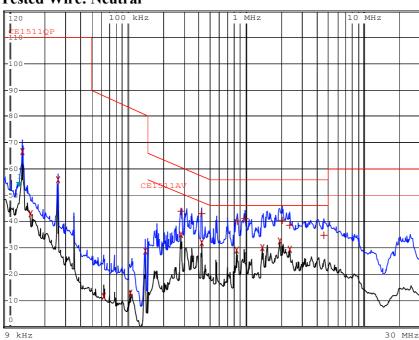
# **4.1.5 Emission Curve**

# At mains terminal:

# **Tested Wire: Live**



# **Tested Wire: Neutral**



#### At load/control terminal:

Not Applicable.

## 4.1.6 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 CISPR 16-4-2:2003.

Measurement uncertainty of mains terminal disturbance voltage in CISPR band A: 1.7dB.

Measurement uncertainty of mains terminal disturbance voltage in CISPR band B: 1.7dB.

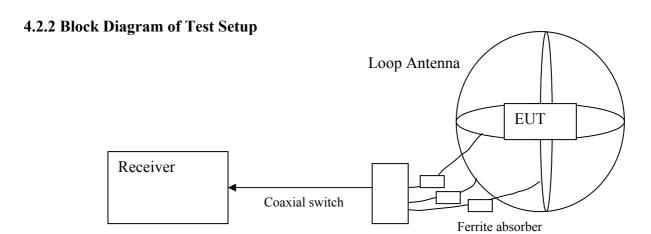
The measurement uncertainty is given with a confidence of 95%, k=2.

# 4.2 EN 55015 Radiated Electromagnetic Disturbance (9 kHz – 30MHz)

**Test Result: Pass** 

4.2.1 Used Test Equipment

Equipment No.	Equipment	Model	Manufacturer
EM080-05	EMI receiver	ESCI	R&S
EM061-04	Triple Loop Antenna	HXYZ9170	SCHWARZBECK
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu



#### **4.2.3** Test Setup and Procedure

The EUT is placed in the centre of the loop antenna system(LAS). The current induced by the magnetic field from the EUT into each of the three large loop antennas of the LAS is measured by connecting the current probe of the large loop antenna to a measuring receiver. During the measurements the EUT remains in a fixed position.

The currents in the three large loop antenna, origination from the three mutually orthogonal magnetic field components, are measured in sequence. Each current level measured shall comply with the emission limit, expressed in dB $\mu$ A, as specified in table of EN 55015. The distance between the outer perimeter of the LAS and nearby objects, such as floor and walls, shall be at least 0.5m.

To avoid unwanted capacitive coupling between the EUT and the LAS, the maximum dimensions of the EUT shall allow a distance of at least 0.2m between the EUT and the standardized 2m large loop antenna of the LAS.

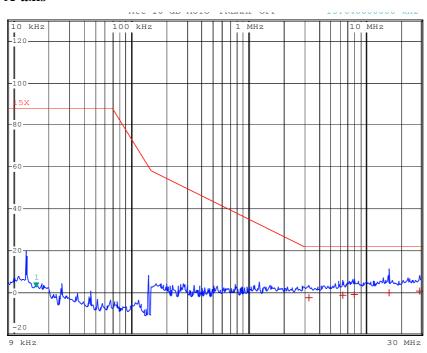
The position of the mains lead shall be optimized for maximum current induction. In general, this position will not be critical when the EUT complies with the conducted emission limit.

#### 4.2.4 Test Data

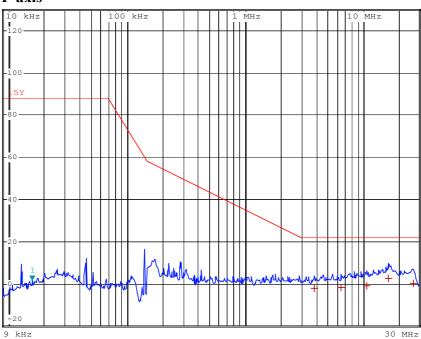
Frequency	X axis	Y axis	Z axis	Limit
[MHz]	$[dB(\mu A)]$	$[dB(\mu A)]$	$[dB(\mu A)]$	$[dB(\mu A)]$
0.009	< 78	< 78	<78	88.0
0.050	< 78	< 78	<78	88.0
0.100	<64	<64	<64	74.0
0.160	<47	<47	<47	57.2
0.240	<40	<40	<40	52.4
0.550	<30	<30	<30	42.5
1.000	<25	<25	<25	35.4
1.400	<20	<20	<20	31.4
2.000	<17	<17	<17	27.1
3.500	<12	<12	<12	22.0
6.000	<12	<12	<12	22.0
10.000	<12	<12	<12	22.0
22.000	<12	<12	<12	22.0
30.000	<12	<12	<12	22.0

# 4.2.5 Test Curve

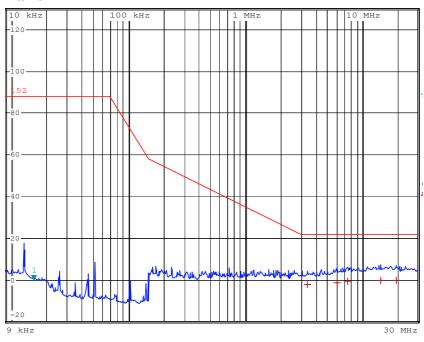
# X-axis



# Y-axis



# **Z**-axis



# **4.2.6 Measurement Uncertainty**

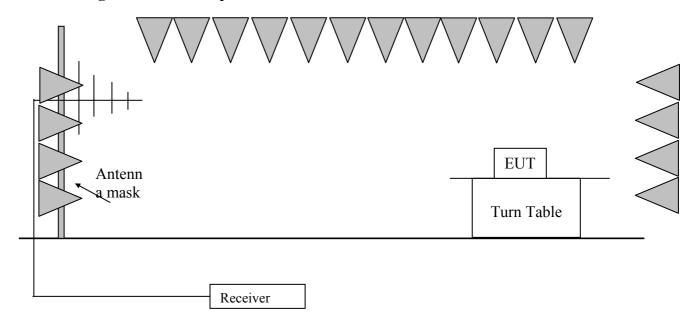
The measurement uncertainty for induction current is under consideration according to CISPR 16-4-2:2003.

# 4.3 EN 55015 Radiated Electromagnetic Disturbance (30 MHz -300 MHz) Test Result: Pass

**4.3.1 Used Test Equipment** 

Equip. No.	Equipment	Model	Manufacturer
SZ185-01	EMI receiver	ESCI	R&S
SZ061-03	BiConiLog Antenna	3142C	ETS
SZ188-01	Anechoic Chamber	RFD-F/A-100	ETS

# 4.3.2 Block Diagram of Test Setup



### 4.3.3 Test Setup and Procedure

The measurement was applied in a semi-anechoic chamber. The EUT and simulators were placed on a 0.8m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mask. The antenna moved up and down between from 1 meter to 4 meters to find out the maximum emission level

Broadband antenna was used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to EN55022 requirement during radiated test. The bandwidth setting on R&S Test Receiver ESI26 was 120 kHz.

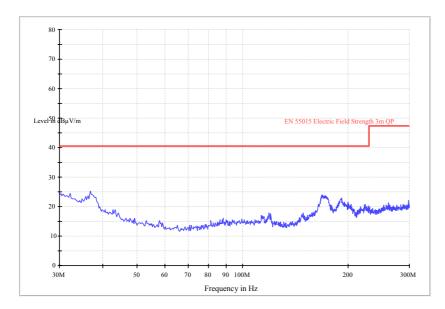
The frequency range from 30MHz to 300MHz was checked

#### 4.3.4 Test Data

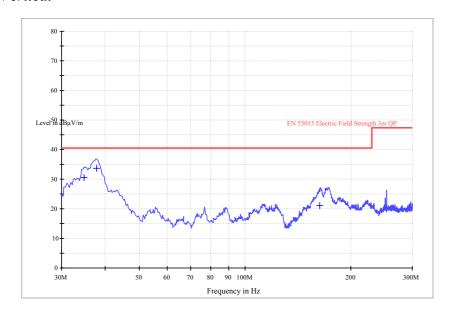
Antenna	Frequency	Measured Net at 3m	Limit at 3m
Polarization	[MHz]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$
Horizontal	100.0	<30	40.0
Horizontal	200.0	<30	40.0
Horizontal	280.0	<37	47.0
Vertical	34.9	30.6	40.0
Vertical	200.0	<30	40.0
Vertical	280.0	<37	47.0

# 4.3.5 Test Curve

# Horizontal



# Vertical



# 4.3.6 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 CISPR 16-4-2:2003.

Measurement uncertainty of radiated emission: 4.8 dB.

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

# 5 Harmonics of current

**Test Result: Pass** 

#### Remark:

EUT is not discharge lighting, the harmonics currents limits are not specified for the equipment with a rated power smaller than or equal to 25W. Therefore the EUT was deemed fulfill the requirements of relative standard without testing.

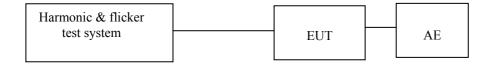
# 6 Flicker

**Test Result: Pass** 

# 6.1 Used Test Equipment

Equipment No.	Equipment	Model	Manufacturer
EM001-01	Harmonic & Flicker	CTS 3.0	California Instrument
	Test System		

# 6.2 Block Diagram of Test Setup



#### **6.3** Test Setup and Procedure

#### 6.3.1 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

#### 6.3.2 Test condition

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

#### 6.4 Test Data

# **Flicker Test Summary (Run time)**

#### Time is too short for Plt plot

Parameter values recorded during the test: Vrms at the end of test (Volt): 230.20

Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time $(mS) > dt$ :	0.0	Test limit (mŚ):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass

#### 6.5 Measurement Uncertainty

Measurement uncertainty for voltage fluctuation and flicker is under consideration according to CISPR 16-4-2:2003.

# 7 Appendix I - Photos of test setup





Radiated Electromagnetic Filed Disturbance (9 KHz – 30MHz)



