

Test Report

Product Name: LED Day Light Lamp Model No.: XZ-E27-5W

FCC ID: XE6-XZ-E27-5W0

Applicant:

Sincho Electric Co., Ltd. 104, Sin-Tso Rd, Sin-Yuan Hsiang, Ping-Tung Hsien, 932 Taiwan

Date Received: 13/06/2009

Date Tested: 11-12/06/2009



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EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
					Interval
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100492	Mar 10,2009	1 Year
LISN	ROHDE&SCHWARZ	ENV216	100093	Mar 10,2009	1Year
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101202	Mar 10,2009	1 Year
Spectrum Analyzer	ANRITSU	MS2651B	6200238316	Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Bilog Antenna	Sunol	JB3	A121206	Mar 10,2009	1 Year
Horn Antenna	EMCO	3115	640201028-0 6	Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Cable	Resenberger	N/A	NO.1	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10,2009	1 Year
Single Phase Power	Kikusui	LIN40MA-PC	LM002352	Mar 10,2009	1Year
Line Filter		R-L			
AC Power Source	Kikusui	AC40MA	LM003232	Mar 10,2009	1Year
Test analyzer	Kikusui	KHA1000	LM003720	Mar 10,2009	1Year
ESD Tester	Kikusui	KES4021	LM003537	Mar 10,2009	1 Year
Signal Generator	IFR	2032	203002/100	Mar 10,2009	1 Year
Amplifier	A&R	150W1000	301584	Mar 10,2009	NCR
Dual Directional A&R		DC6080	301508	Mar 10,2009	1 Year
Coupler					
Power Head	A&R	PH2000	301193	Mar 10,2009	1 Year
Power Meter	A&R	PM2002	302799	Mar 10,2009	1 Year
Field Monitor	A&R	FM5004	300329	Mar 10,2009	1 Year
Field Probe	A&R	FP5000	300221	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V064810202 6	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0 <mark>64810202</mark> 6	Mar 10,2009	1 Year

Remark:

Test Firm Name: Most Technology Service Co., Ltd. Test Firm Address: No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park,Nanshan, Shenzhen, Guangdong, China FCC Registered Test Site Number: 490827



TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example: Freq (MHz) METER READING + ACF + CABLE = FS 33 20 dBuV + 10.36 dB + 0.9 dB= 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.



APPLICANT: Sincho Electric Co., Ltd.

FCC ID: XE6-XZ-E27-5W0

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 18.307, 18.311

REQUIREMENTS:

Eroquonar of Emiggion (MHr)	Conducted Limit	t (dBuV)		
Frequency or Emission (MHZ)	Quasi-peak	Average		
0.15-0.5	66 to 56 *	56 to 46 *		
0.5-5	56	46		
5-30	60	50		
*Decreases with the logarithm	of the frequency			

TEST PROCEDURE: ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 43.00dBuv @ 1.51MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 47.20dBuv @ 0.19MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1980	42.86	11.88	54.74	63.69	-8.95	QP	
2	0.3860	32.88	10.76	43.64	58.15	-14.51	QP	
3	0.7900	29.11	10.00	39.11	56.00	-16.89	QP	
4	2.4300	28.58	9.43	38.01	56.00	-17.99	QP	
5	3.9740	26.02	10.97	36.99	56.00	-19.01	QP	
6	23.1660	29.13	9.00	38.13	60.00	-21.87	QP	





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1940	39.20	11.64	50.84	63.86	-13.02	QP	
2 *	0.2860	36.36	11.43	47.79	60.64	-12.85	QP	
3	0.5700	32.51	10.00	42.51	56.00	-13.49	QP	
4	0.9580	28.08	10.00	38.08	56.00	-17.92	QP	
5	2.2140	23.51	9.21	32.72	56.00	-23.28	QP	
6	29.2900	22.94	9.00	31.94	60.00	-28.06	QP	



APPLICANT: Sincho Electric Co., Ltd.

FCC ID: XE6-XZ-E27-5W0

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 18.305, 18.311

REQUIREMENTS:

S18.305 0.009-30 MHz 63.5dBuV/m @3M

Test Data:

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Emis	FCC 18 Limit		
	Avg	QP	Peak	(dBuv/m)
0.19			16.4	63.5
0.27			19.2	63.5
6.02			18.5	63.5
21.6			22.3	63.5