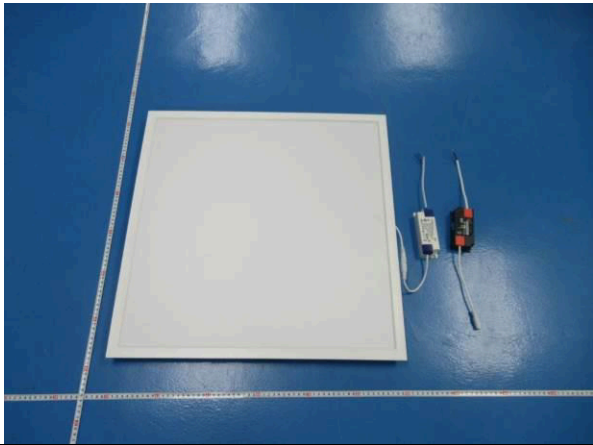
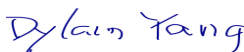


Prüfbericht-Nr.: Test Report No.:	50217287 001	Auftrags-Nr.: Order No.:	164151754	Seite 1 von 28 Page 1 of 28
Kunden-Referenz-Nr.: Client Reference No.:	634936	Auftragsdatum: Order date.:	21 Dec. 2018	
Auftraggeber: Client:	LED PANEL LIGHTING CO.,LTD. 1~6F,NO.233 QingFeng Rd,Sanzhong, Qingxi, Dongguan, GD 523651, P. R. China			
Prüfgegenstand: Test item:	LED Panel Light			
Bezeichnung / Typ-Nr.: Identification / Type No.:	Refer to section 3.1 for details			
Auftrags-Inhalt: Order content:	TUV Rheinland - EMC service			
Prüfgrundlage: Test specification:	EN 55015:2013+A1 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013			
Wareneingangsdatum: Date of receipt:	06 December 2018			
Prüfmuster-Nr.: Test sample No.:	189570 to 189575 189973 to 189975			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
16.01.2019 Dylan Yang Senior Project Engineer 		16.01.2019 Tiger Su Technical Certifier 		
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

5.1.1 HARMONICS ON AC MAINS

RESULT: Pass

5.1.2 VOLTAGE FLUCTUATIONS ON AC MAINS

RESULT: Pass

5.1.3 DISTURBANCE VOLTAGE ON AC MAINS

RESULT: Pass

5.1.4 RADIATED ELECTROMAGNETIC DISTURBANCES

RESULT: Pass

5.2.1 RADIATED ELECTROMAGNETIC DISTURBANCES

RESULT: Pass

6.2.1 RADIO FREQUENCY ELECTROMAGNETIC FIELDS (RS)

RESULT: Pass

6.2.2 INJECTED CURRENTS / CONDUCTED SUSCEPTIBILITY (CS)

RESULT: Pass

6.3.1 ELECTRICAL FAST TRANSIENTS (EFT)

RESULT: Pass

6.3.2 SURGE

RESULT: Pass

6.3.3 ELECTROSTATIC DISCHARGES (ESD)

RESULT: Pass

6.4.1 VOLTAGE DIP AND INTERRUPTION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Measurement uncertainties

2. Test Sites

2.1 Test Facilities

Alpha Product Testing Laboratory
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen,
Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Disturbance Voltage (Alpha)				
Test Receiver	Rohde & Schwarz	ESPI	101165	2019.09.20
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2019.09.20
L.I.S.N.#2	ROHDE&SC HWARZ	ENV216	101043	2019.09.20
Pulse Limiter	Schwarzbeck	9516F	9618	2019.09.20
Radiated Electromagnetic Disturbance(9k-30MHz) (Alpha)				
Test Receiver	Rohde & Schwarz	ESCI	100843	2019.09.20
Triple-loop Antenna	EVERFINE	LLA-2	11050002	2019.09.20
RF Cable	MIYAZAKI	5D-2W	NO.1	2019.09.20
Coaxial Switch	Schwarzbeck	CX-210	N/A	N/A
Radiated Electromagnetic Disturbance(30M-300MHz) (Alpha)				
Test Receiver	Rohde&Schwarz	ESR	1316.3003K0 3-102082- Wa	2019.09.20
Bilog Antenna	Schwarzbeck	VULB 9168	VULB 9168#627	2019.09.20
Spectrum Analyzer	Agilent	E4407B	MY49510055	2019.09.20
Horn Antenna	Schwarzbeck	BBHA 9120 D	BBHA 9120 D(1201)	2019.09.20
Amplifier	Agilent	8449B	3008A02664	2019.09.20
RF Cable	Schwarzbeck	AK9515E	Cable1	2019.09.20
RF Cable	Schwarzbeck	AK9515E	Cable2	2019.09.20
Electrostatic Discharge (Alpha)				
ESD Tester	HAEFLY	PESD1610	H310546	2019.09.20
Radio-Frequency Electromagnetic Field Amplitude Modulated (Alpha)				
Power Amplifier	CCHINESE EMC	5225F	001	N/A
Power Amplifier	CCHINESE EMC	5273F	002	N/A
vector Signal Generator	Agilent	N5182A	MY49060042	2019.09.20
Power Sensor	Agilent	E4419B	GB40202122	2019.09.20
Power Sensor	Agilent	E9300A	MY41496625	2019.09.20
Log-periodic Antenna	SCHWARZB ECK	STLP9128E-special	STLP9128Es #139	N/A
High Gain Antenna	SCHWARZB ECK	STLP 9149	STLP 9149#456	N/A

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Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Injected Current (Alpha)				
Conducted Immunity Test System	Frankonia	CIT-10/75	12681247/2013	2019.09.20
Fixed Coaxial Attenuator	CD	ATT-0675	120540086	2019.09.20
coupling-decoupling network (CDN)	CD	CDN M2/M3	2302	2019.09.20
Electromagnetic Injection Clamp (EMC-Clamp)	CD	EM-Clamp	0513A031201	2019.09.20
EFT, Surge & Dips (Alpha)				
Multifunctional Compact Immunity Test system	3ctest	CCS 600	ES0801655	2019.09.20
Surge & EFT Coupling Decoupling Network	3ctest	SEPN 3832T	ES0951601	2019.09.20
Voltage variation and PF magnetic field regulating device	3ctest	VMT2216S	ES0441601	2019.09.20
Capacitive Coupling Clamp	3ctest	CCC 100	EC0441660	2019.09.20
Combination Wave Surge Simulator	3ctest	CWS 600T	ES0311604	2019.09.20
Unshielded Unsymmetrical Interconnection Lines Coupling Decoupling Network	3ctest	CDN 405AF8	ES1011625	2019.09.20
Unshielded symmetrical high - speed Interconnection Lines Coupling Decoupling Network	3ctest	CDN 405T8A1	ES2731602	2019.09.20
Unshielded Unsymmetrical Telemetry Coupled Decoupling Network	3ctest	CDN 405M40-5	ES1071601	2019.09.20
Harmonics (Alpha)				
Harmonics&Flicker Analyser	Voltech	PM6000	200006700495	2019.09.20

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are LED panel lights for lighting purpose.

Table 2: Model List and Classification Table

Model No.	Dimension (mm)	Power	LED quantities	weight kg	LED Driver
BLIT-6060-20D-YY	596x596	20	36/48	3	LF-GIF030YA(H)
BLIT-6060-22D-YY		22		3	LF-GIF030YA(H)
BLIT-6060-25D-YY		25		3	LF-GIF030YA(H)
BLIT-6060-30D-YY		30		3	LF-GIF040YA(H)
BLIT-6060-35D-YY		35		3	LF-GIF040YA(H) or I789
BLIT-6060-40D-YY		40		3	LF-GIF040YA(H) or I789
BLIT-6060-45D-YY		45		3	LF-GIF050YA(H)
BLIT-6262-20D-YY	620x620	20	36/48	3.2	LF-GIF030YA(H)
BLIT-6262-22D-YY		22		3.2	LF-GIF030YA(H)
BLIT-6262-25D-YY		25		3.2	LF-GIF030YA(H)
BLIT-6262-30D-YY		30		3.2	LF-GIF040YA(H)
BLIT-6262-35D-YY		35		3.2	LF-GIF040YA(H) or I789
BLIT-6262-40D-YY		40		3.2	LF-GIF040YA(H) or I789
BLIT-6262-45D-YY		45		3.2	LF-GIF050YA(H)
BLIT-30120-20D-YY	296x1196	20	36/48	3.2	LF-GIF030YA(H)
BLIT-30120-22D-YY		22		3.2	LF-GIF030YA(H)
BLIT-30120-25D-YY		25		3.2	LF-GIF030YA(H)
BLIT-30120-30D-YY		30		3.2	LF-GIF040YA(H)
BLIT-30120-35D-YY		35		3.2	LF-GIF040YA(H), I789
BLIT-30120-40D-YY		40		3.2	LF-GIF040YA(H) or I789
BLIT-30120-45D-YY		45		3.2	LF-GIF050YA(H)
BLIT-60120-40D-YY	596x1196	40	72/96	7.3	LF-GIF040YA(H) or I789
BLIT-60120-45D-YY		45		7.3	LF-GIF050YA(H)
BLIT-60120-50D-YY		50		7.3	LF-GIF050YA(H)
BLIT-60120-60D-YY		60		7.3	LF-GIF060YA(H)

"YY" can be 27, 30, 35, 40, 45, 50, 55, 60 or 65, indicated LED CCT.

E.G: 27=2700K, 30=3000K, 35=3500K, 40=4000K, 45=4500K, 50=5000K, 55=5500K, 60=6000K, 65=6500K

For more information refer to the manufacturer's Circuit Diagram & Instruction Manual.

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3.2 Ratings and System Details

System input voltage:	AC 220-240V
Frequency:	50/60Hz
Rated output:	Refer to above table 2
Protection class:	II

3.3 Independent Operation Modes

- A. On
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the manufacturer's Circuit Diagram.

3.5 Submitted Documents

- Rating Label
- Instruction Manual

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure their highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have their highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and 6. According to models' differences indicated in section 3.1, full tests were applied to models BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65 & BLIT-60120-60D-65.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test samples which have been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

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5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Harmonics on AC Mains

RESULT:**Pass**

Date of testing	:	2018-12-06 & 2018-12-13
Test procedure	:	EN 61000-3-2:2014
Class	:	C
Limit	:	Table 2
Measured harmonics	:	1 - 40

Test setup

Input Voltage	:	AC 230V±2%, 50Hz
Operation Condition	:	According to clause C.5
Operation mode	:	A
Earthing	:	Not Connected

Refer to attached Appendix 1.

Remark:

1. For this kind of product, although the test software was indicated as the previous version of EN 61000-3-2 in the test result, compared with the requirement of EN 61000-3-2:2014, they have the same test requirements, and have no difference for testing, therefore the EUTs are also deemed to comply with the requirement of EN 61000-3-2:2014.
2. According to CTL decision DSH: 617, the limit of the standard is not applicable to the EUTs having an active input power smaller than 25W. the active input power of model BLIT-6060-20D-65 & BLIT-6060-25D-65 is less than 25W, hence this test is not applicable to model BLIT-6060-20D-65 & BLIT-6060-25D-65.

5.1.2 Voltage Fluctuations on AC Mains

RESULT:**Pass**

Test procedure	:	EN 61000-3-3: 2013
Limit	:	Clause 5
Frequency range	:	0 - 2kHz

The maximum input power of the EUTs is 60W only, which unlikely to produce significant voltage fluctuation. Therefore no test is applied.

See clause 6.1***

*** EN 61000-3-3: 2013, clause 6.1:" ... Tests need not be made on equipment which is unlikely to produce significant voltage fluctuations or flicker. ...".

5.1.3 Disturbance Voltage on AC Mains

RESULT:**Pass**

Date of testing	:	2018-12-06 to 2018-12-18
Test standard	:	EN 55015:2013+A1
Frequency range	:	0.009 - 30MHz
Limits	:	Table 2a
Kind of test site	:	Shielded room

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Condition	:	According to Clause 6, 8.1.1 & 8.2
Operation mode	:	A
Artificial hand	:	Not applied
Earthing	:	Not connected

Refer to attached Appendix 1.

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5.1.4 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing	:	2018-12-12 to 2018-12-18
Test standard	:	EN 55015: 2013+A1
Frequency range	:	0.009 - 30MHz
Limits	:	Table 3a
Kind of test site	:	Shielded room

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Condition	:	According to Clause 6 & 9.1
Operation mode	:	A
Earthing	:	Not connected

Refer to attached Appendix 1.

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5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing	:	2018-12-06 to 2018-12-18
Test standard	:	EN 55015: 2013+A1
Basic standard	:	CISPR 32: 2012
Frequency range	:	30 - 300MHz
Limits	:	Table 3b
Kind of test site	:	3m semi-anechoic chamber

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Condition	:	According to Clause 6 & 9.2
Operation mode	:	A
Earthing	:	Not connected

Refer to attached Appendix 1.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN 61547: 2009, the EUTs belong to Luminaries, and shall be tested in accordance with clause 5 and comply with the performance criterion of table 15.

Continuous Disturbance

Radio-Frequency Electromagnetic Fields (RS)	Criterion A
Injected Currents	Criterion A
Power Frequency Magnetic Fields *	Criterion A

Transient Disturbance

Fast Transient (EFT)	Criterion B
Surge	Criterion C
Electrostatic Discharges (ESD)	Criterion B

Power supply Alterations

Voltage Dips and Interruptions 30% Voltage Reduction, 10 Periods	Criterion C
100% Voltage Reduction, 0.5 Periods	Criterion B

Remark: *- The EUTs do not contain devices susceptible to magnetic fields; therefore the Power-Frequency Magnetic Fields test is not necessary.

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6.2 Continuous Disturbances

6.2.1 Radio Frequency Electromagnetic Fields (RS)

RESULT:**Pass**

Date of Testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 2
Basic Standard	:	IEC 61000-4-3: 2006
Criterion	:	A
Frequency Range	:	80 - 1000MHz
Test Level	:	3V/m (Unmodulated, rms)
Modulation	:	80% AM, 1kHz

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient Temperature	:	See Appendix 1
Relative Humidity	:	See Appendix 1
Atmospheric Pressure	:	See Appendix 1

Refer to attached Appendix 1.

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6.2.2 Injected Currents / Conducted Susceptibility (CS)**RESULT:****Pass**

Date of testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 9
Basic Standard	:	IEC 61000-4-6: 2008
Criterion	:	A
Frequency range	:	0.15 - 80 MHz
Source impedance	:	150Ω
Test level	:	3V (unmodulated, rms.)
Modulation	:	AM 80%, 1kHz sine-wave
Sweep mode	:	automatic
Sweep rate	:	$< 1.5 \times 10^{-3}$ decade / sec.
Tested port	:	AC Mains

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.3 Transient Disturbances

6.3.1 Electrical Fast Transients (EFT)

RESULT:**Pass**

Date of testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 6
Basic Standard	:	IEC 61000-4-4: 2004
Criterion	:	B
Test level	:	±1kV
Test duration	:	≥60sec
Rise time	:	5/50ns
Repetition frequency	:	5kHz

Test setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.3.2 Surge

RESULT:**Pass**

Date of testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 10
Basic Standard	:	IEC 61000-4-5: 2005
Criterion	:	C
Source impedance	:	2Ω for line to line
Test level	:	±0.5kV, ±1kV*
Coupling phases	:	$\pi/2$, $3\pi/2$
Number of surges	:	5 (for each combination of parameters)
Repetition rate	:	Max. 1/min

Test Setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

Remark: The applied test voltage at the input a.c. power port depends on the input power of EUT, refer to table 10 of EN 61547:2009 for details.

6.3.3 Electrostatic Discharges (ESD)

RESULT:**Pass**

Date of testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 1
Basic Standard	:	IEC 61000-4-2: 2008
Criterion	:	B
Charge voltage	:	±2kV, ±4kV, ±8kV (air discharge) ±4kV (contact discharge)
Number of discharges	:	>10

Test Setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.4 Power Supply Alterations

6.4.1 Voltage Dip and Interruption

RESULT:**Pass**

Date of testing	:	2018-12-19
Test Specification	:	EN 61547: 2009, table 11 & 12
Basic Standard	:	IEC 61000-4-11: 2004
Criterion	:	C - table 11 B - table 12

Test Setup

Input Voltage	:	AC 220-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

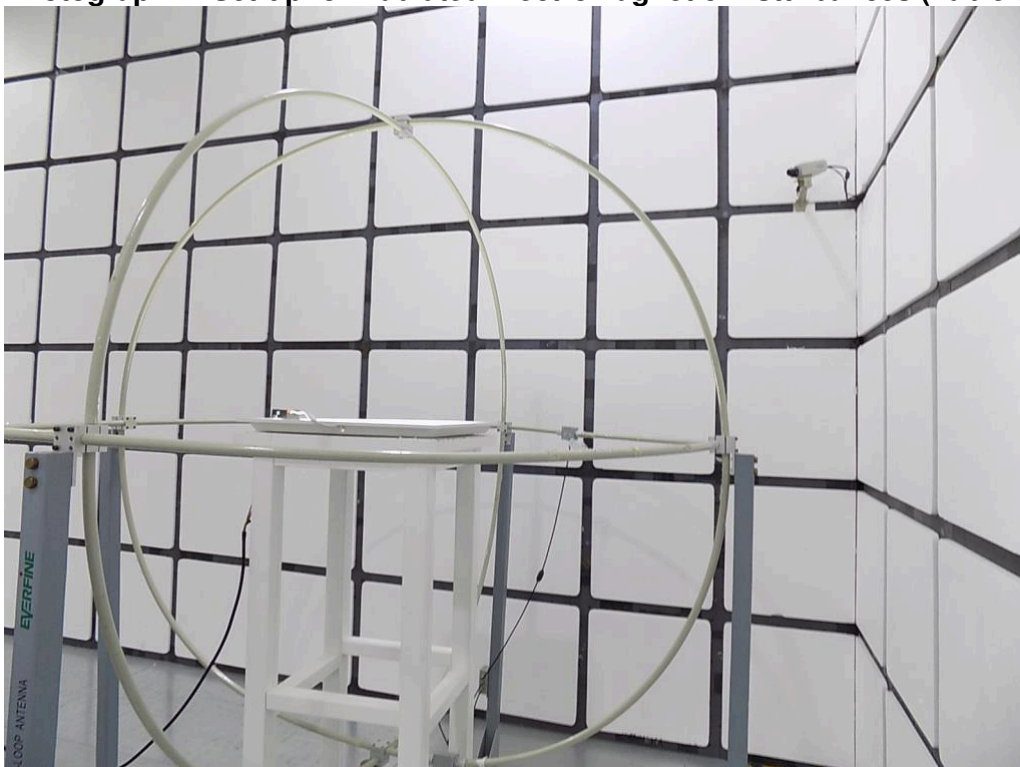
Refer to attached Appendix 1.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Disturbance Voltage on AC Mains



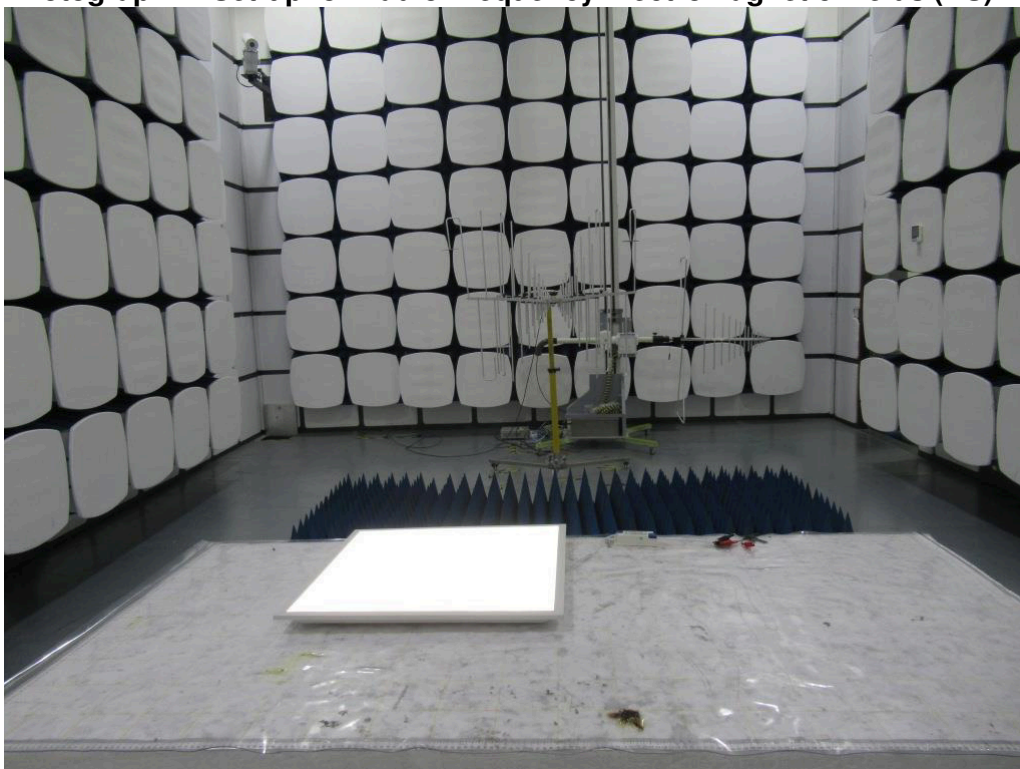
Photograph 2: Set-up for Radiated Electromagnetic Disturbances (Table 3a)



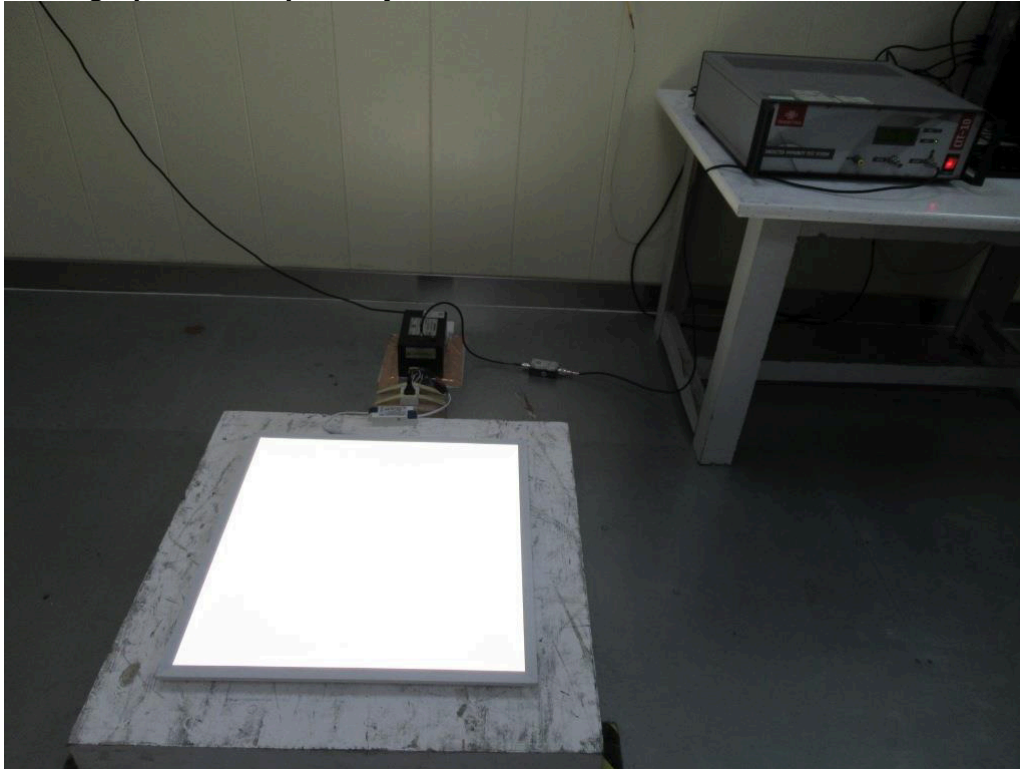
Photograph 3: Set-up for Radiated Electromagnetic Disturbances (Table 3b)



Photograph 4: Set-up for Radio Frequency Electromagnetic Fields (RS)



Photograph 5: Set-up for Injected Currents on AC Mains



Photograph 6: Set-up for EFT on AC Mains



Photograph 7: Set-up for Surge



Photograph 8: Set-up for Voltage Dips and Interruptions



Photograph 9: Set-up for Electrostatic Discharges (ESD)



Photograph 10: Set-up for Harmonics on AC Mains



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Photograph 6: Set-up for EFT on AC Mains	25
Photograph 7: Set-up for Surge	26
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Photograph 9: Set-up for Electrostatic Discharges (ESD)	27
Photograph 10: Set-up for Harmonics on AC Mains	27

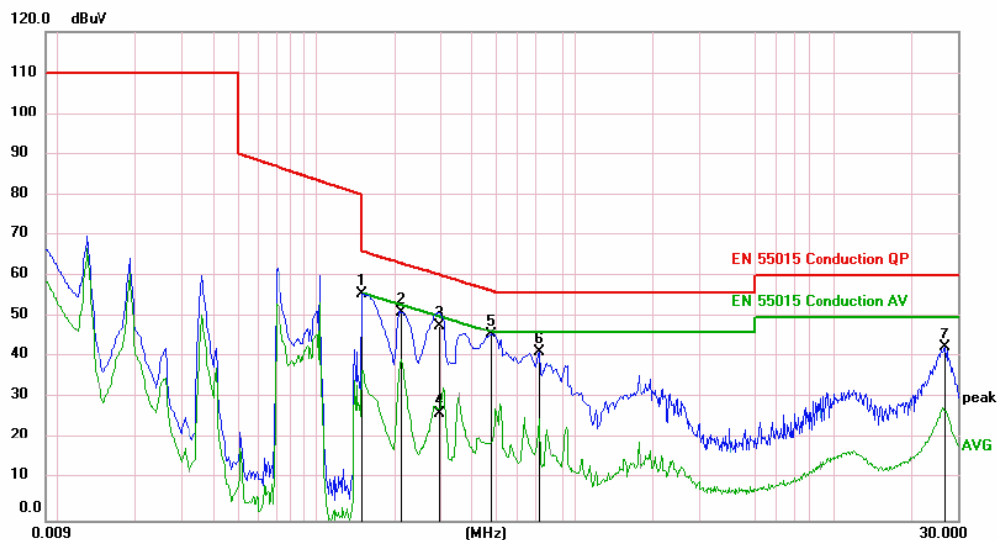


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :12 Data :#1 Date: 2018-12-6 Time: 21:55:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	46.03	9.73	55.76	66.00	-10.24	peak	
2		0.2130	41.45	9.75	51.20	63.09	-11.89	peak	
3		0.2985	38.15	9.76	47.91	60.28	-12.37	QP	
4		0.2985	16.40	9.76	26.16	50.28	-24.12	AVG	
5		0.4740	35.85	9.78	45.63	56.44	-10.81	peak	
6		0.7215	31.51	9.80	41.31	56.00	-14.69	peak	
7		26.7805	31.46	10.92	42.38	60.00	-17.62	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

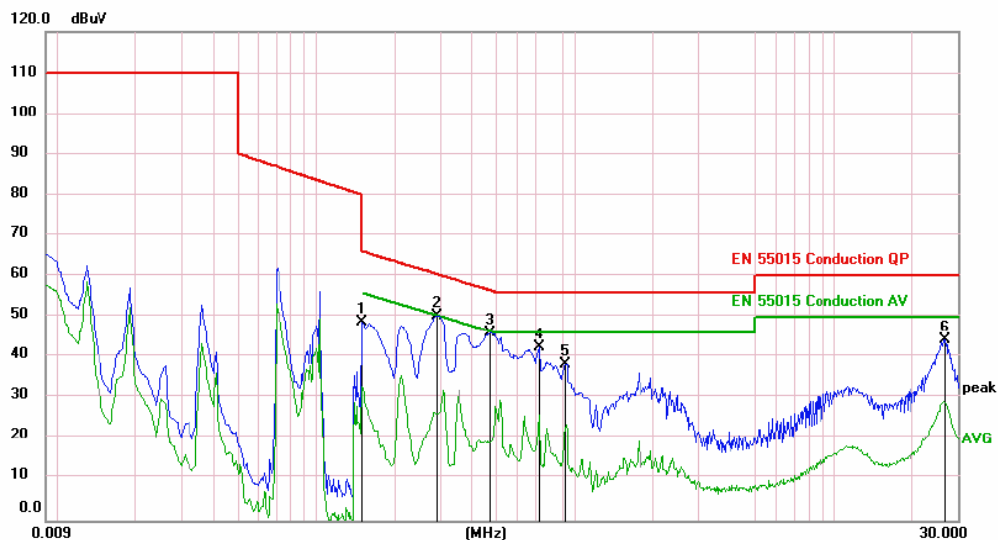


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :12 Data :#2 Date: 2018-12-6 Time: 21:57:22



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1500	39.15	9.73	48.88	66.00	-17.12	peak	
2 *	0.2940	40.59	9.76	50.35	60.41	-10.06	peak	
3	0.4695	36.25	9.78	46.03	56.52	-10.49	peak	
4	0.7260	32.60	9.80	42.40	56.00	-13.60	peak	
5	0.9240	28.57	9.83	38.40	56.00	-17.60	peak	
6	26.7805	33.45	10.92	44.37	60.00	-15.63	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

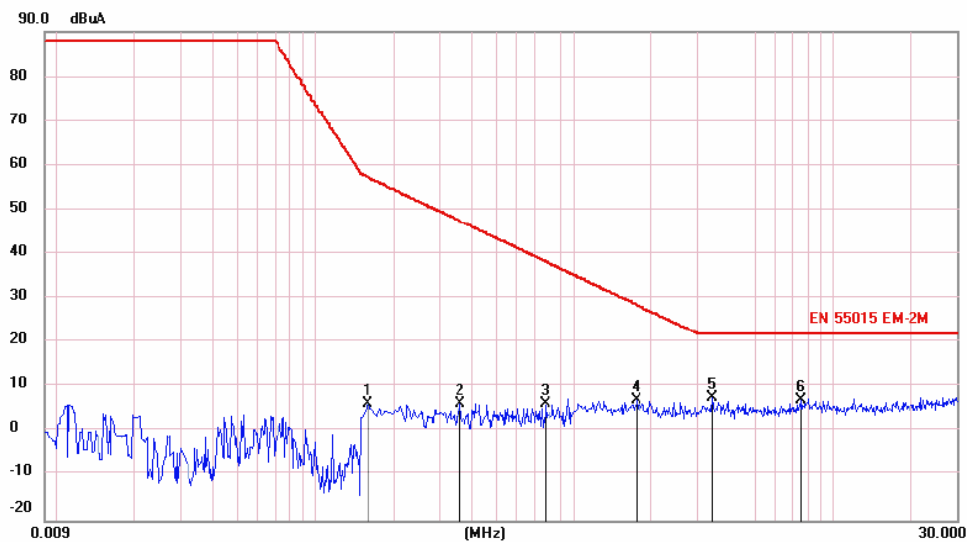


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#4 Date: 2018-12-12 Time: 10:12:45



No. Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1	0.1590	6.31	0.08	6.39	57.30	-50.91	peak	
2	0.3613	6.23	0.08	6.31	47.44	-41.13	peak	
3	0.7752	6.03	0.10	6.13	38.26	-32.13	peak	
4	1.7400	6.87	0.10	6.97	28.55	-21.58	peak	
5 *	3.4003	7.40	0.13	7.53	22.00	-14.47	peak	
6	7.5003	6.79	0.19	6.98	22.00	-15.02	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

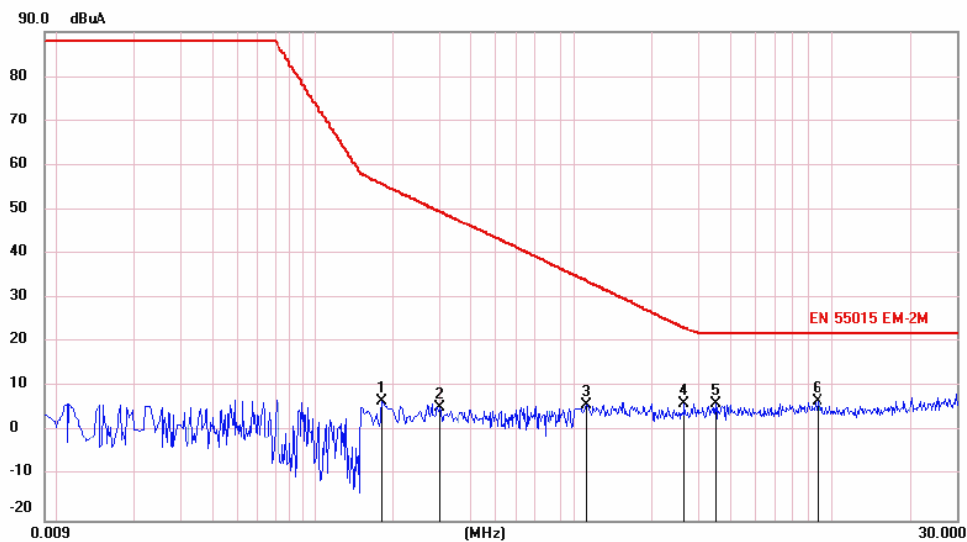


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#5 Date: 2018-12-12 Time: 10:16:28



No. Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1	0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2	0.3029	5.47	0.08	5.55	49.55	-44.00	peak	
3	1.1204	6.00	0.10	6.10	33.84	-27.74	peak	
4	2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
5	3.5003	6.02	0.14	6.16	22.00	-15.84	peak	
6 *	8.7004	6.49	0.19	6.68	22.00	-15.32	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

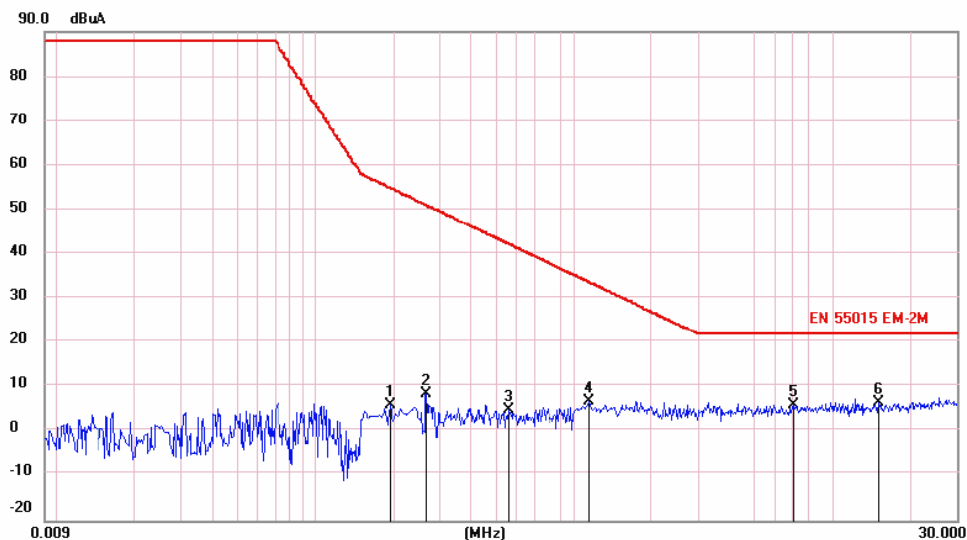


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#6 Date: 2018-12-12 Time: 10:20:41



No. Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1	0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2	0.2671	8.52	0.08	8.60	51.07	-42.47	peak	
3	0.5594	4.84	0.08	4.92	42.18	-37.26	peak	
4	1.1403	6.84	0.10	6.94	33.62	-26.68	peak	
5	7.0403	5.92	0.19	6.11	22.00	-15.89	peak	
6 *	15.0204	6.29	0.26	6.55	22.00	-15.45	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

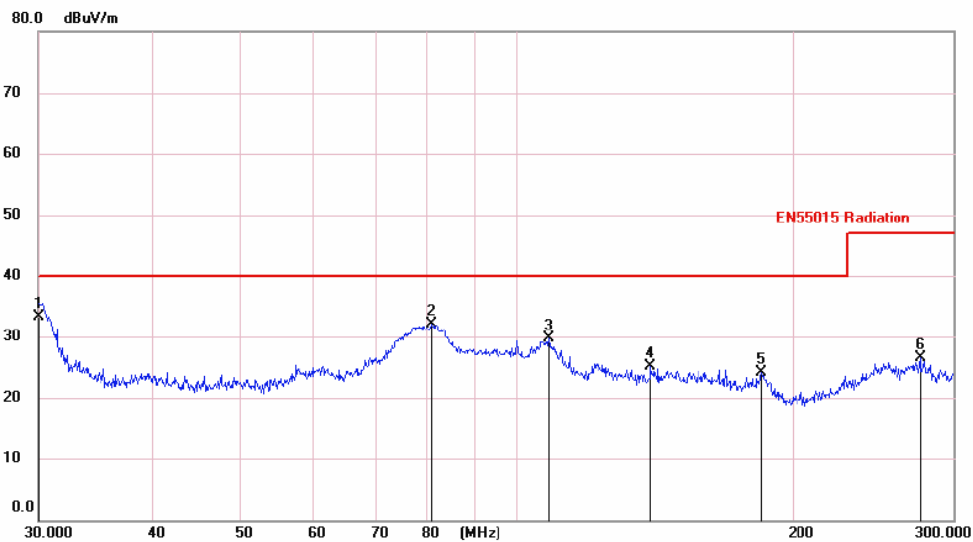


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #3 Date: 2018/12/6 Time: 19:34:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0000	20.01	13.25	33.26	40.00	-6.74	QP		
2		80.7460	22.65	9.47	32.12	40.00	-7.88	peak		
3		108.4230	18.34	11.37	29.71	40.00	-10.29	peak		
4		139.9978	11.18	13.83	25.01	40.00	-14.99	peak		
5		184.9785	12.64	11.54	24.18	40.00	-15.82	peak		
6		276.1349	13.70	12.89	26.59	47.00	-20.41	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

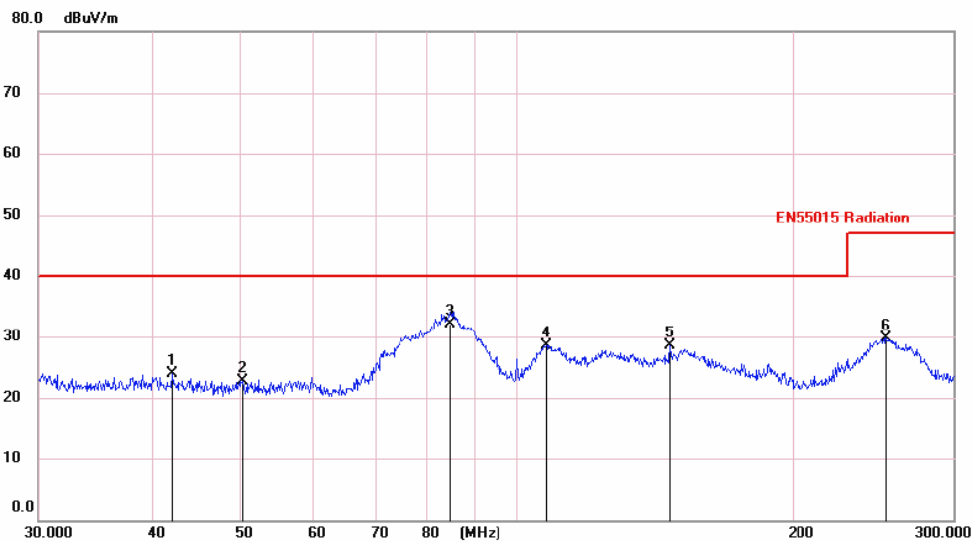


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-20D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #4 Date: 2018/12/6 Time: 19:37:07



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.9876	9.71	14.12	23.83	40.00	-16.17	peak		
2		50.1326	9.08	13.71	22.79	40.00	-17.21	peak		
3	*	84.7464	22.38	9.65	32.03	40.00	-7.97	QP		
4		107.6766	17.29	11.30	28.59	40.00	-11.41	peak		
5		146.9336	14.19	14.33	28.52	40.00	-11.48	peak		
6		253.0004	17.52	12.14	29.66	47.00	-17.34	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: **L1**

Temperature: 24.9

Limit: EN 55015 Conduction QP

Power: AC 230V/50Hz

Humidity: 47 %

EUT: Panel Light

M/N: BLIT-6060-25D-65

Mode: Lighting

Note: LF-GIF030YA(H)

Engineer Signature: Anne

Conducted Emission Measurement

File :12

Data :#7

Date: 2018-12-18

Time: 22:01:39



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	44.12	9.66	53.78	66.00	-12.22	QP	
2		0.1500	25.33	9.66	34.99	56.00	-21.01	AVG	
3		0.1860	42.76	9.67	52.43	64.21	-11.78	peak	
4		0.2670	40.11	9.69	49.80	61.21	-11.41	QP	
5		0.2670	19.93	9.69	29.62	51.21	-21.59	AVG	
6	*	0.4290	36.89	9.71	46.60	57.27	-10.67	peak	
7		0.5910	33.93	9.72	43.65	56.00	-12.35	peak	
8		0.7890	30.18	9.74	39.92	56.00	-16.08	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-25D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#8 Date: 2018-12-18 Time: 22:04:11



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	40.73	9.66	50.39	66.00	-15.61	peak	
2	0.2625	40.86	9.69	50.55	61.35	-10.80	peak	
3 *	0.4245	37.00	9.71	46.71	57.36	-10.65	peak	
4	0.5910	34.87	9.72	44.59	56.00	-11.41	peak	
5	0.7845	30.69	9.73	40.42	56.00	-15.58	peak	
6	1.0005	29.96	9.77	39.73	56.00	-16.27	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: Y

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-6060-25D-65

Mode: Lighting

Note: LF-GIF030YA(H)

Engineer Signature: Anne

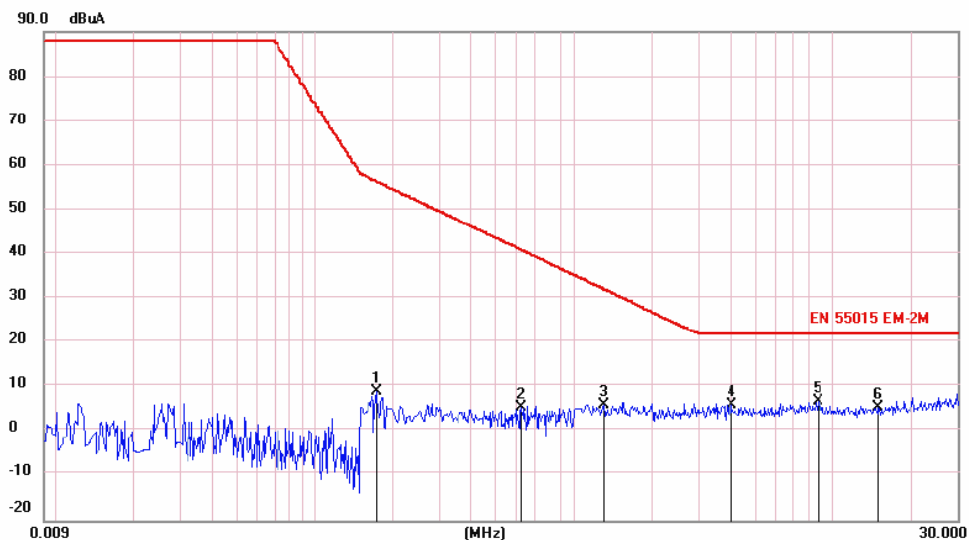
Conducted Emission Measurement

File :12

Data :#4

Date: 2018-12-18

Time: 21:06:23



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1723	8.94	0.08	9.02	56.33	-47.31	peak	
2		0.6219	5.37	0.08	5.45	40.91	-35.46	peak	
3		1.3004	5.89	0.10	5.99	32.05	-26.06	peak	
4		4.0403	5.93	0.14	6.07	22.00	-15.93	peak	
5	*	8.7004	6.49	0.19	6.68	22.00	-15.32	peak	
6		14.9001	5.05	0.26	5.31	22.00	-16.69	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

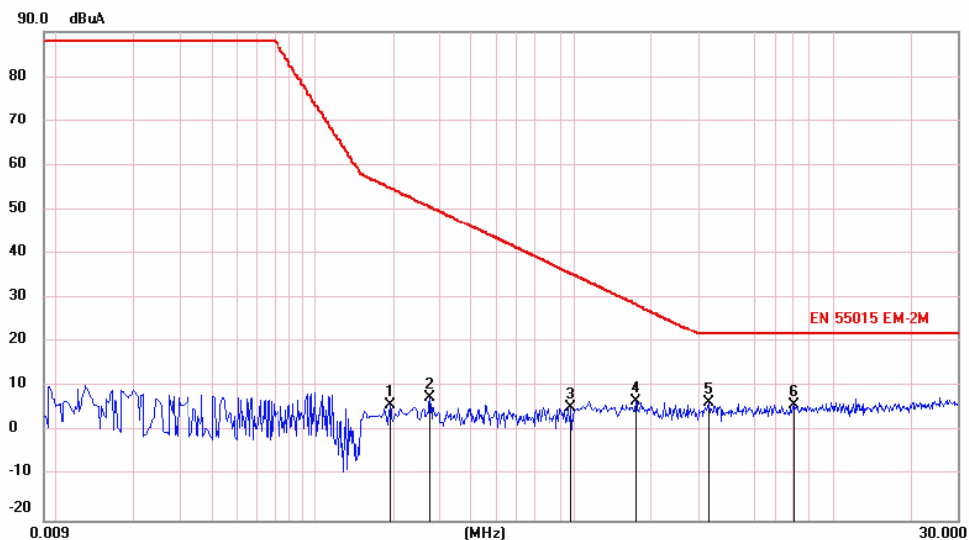


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-25D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#5 Date: 2018-12-18 Time: 21:10:59



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
3		0.9778	5.43	0.10	5.53	35.47	-29.94	peak	
4		1.7200	6.83	0.10	6.93	28.68	-21.75	peak	
5	*	3.3003	6.49	0.13	6.62	22.00	-15.38	peak	
6		7.0403	5.92	0.19	6.11	22.00	-15.89	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-25D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#6 Date: 2018-12-18 Time: 21:15:17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1949	4.16	0.08	4.24	54.85	-50.61	peak	
2		0.5190	4.20	0.08	4.28	43.08	-38.80	peak	
3		1.0604	5.52	0.10	5.62	34.50	-28.88	peak	
4		2.2004	3.99	0.10	4.09	25.72	-21.63	peak	
5	*	4.9403	5.33	0.16	5.49	22.00	-16.51	peak	
6		13.3201	4.78	0.23	5.01	22.00	-16.99	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-25D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #17 Date: 2018/12/18 Time: 18:58:14



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.1385	17.07	13.27	30.34	40.00	-9.66	peak		
2		79.0899	24.13	9.51	33.64	40.00	-6.36	peak		
3	*	81.1188	24.20	9.49	33.69	40.00	-6.31	peak		
4		110.9485	14.38	11.62	26.00	40.00	-14.00	peak		
5		133.3894	12.37	13.43	25.80	40.00	-14.20	peak		
6		170.2634	10.48	13.73	24.21	40.00	-15.79	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

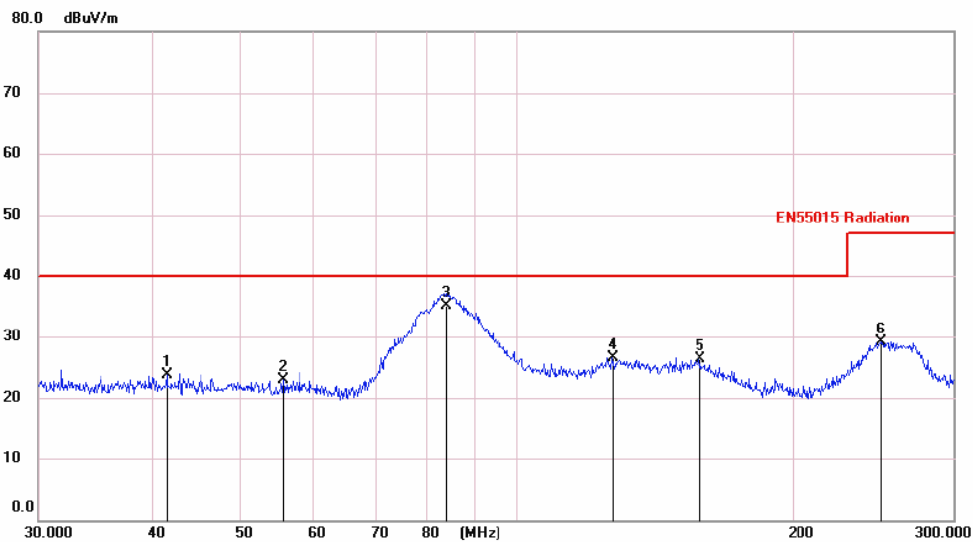


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-25D-65		
Mode: Lighting		
Note: LF-GIF030YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File : 拓博光电 Data : #18 Date: 2018/12/18 Time: 18:59:54



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.4115	9.50	14.11	23.61	40.00	-16.39	peak		
2		55.4781	9.68	13.24	22.92	40.00	-17.08	peak		
3	*	83.7762	25.56	9.60	35.16	40.00	-4.84	QP		
4		127.3859	13.53	13.07	26.60	40.00	-13.40	peak		
5		158.5336	11.79	14.57	26.36	40.00	-13.64	peak		
6		249.5291	16.98	12.04	29.02	47.00	-17.98	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

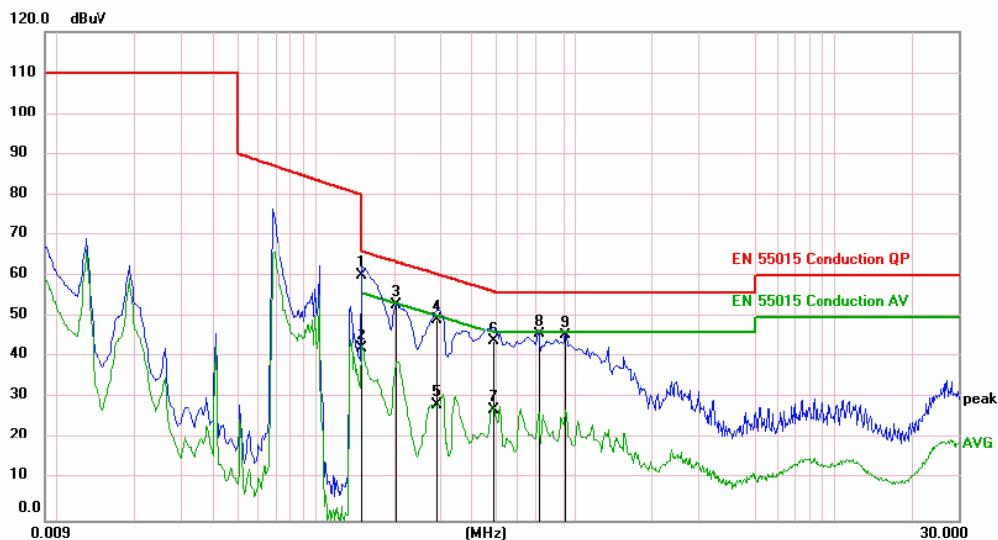


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#11 Date: 2018-12-6 Time: 22:36:12



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	50.44	9.73	60.17	66.00	-5.83	QP	
2		0.1500	32.50	9.73	42.23	56.00	-13.77	AVG	
3		0.2040	43.35	9.74	53.09	63.45	-10.36	peak	
4		0.2940	39.56	9.76	49.32	60.41	-11.09	QP	
5		0.2940	18.45	9.76	28.21	50.41	-22.20	AVG	
6		0.4830	34.15	9.78	43.93	56.29	-12.36	QP	
7		0.4830	17.26	9.78	27.04	46.29	-19.25	AVG	
8		0.7215	36.03	9.80	45.83	56.00	-10.17	peak	
9		0.9240	35.69	9.83	45.52	56.00	-10.48	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

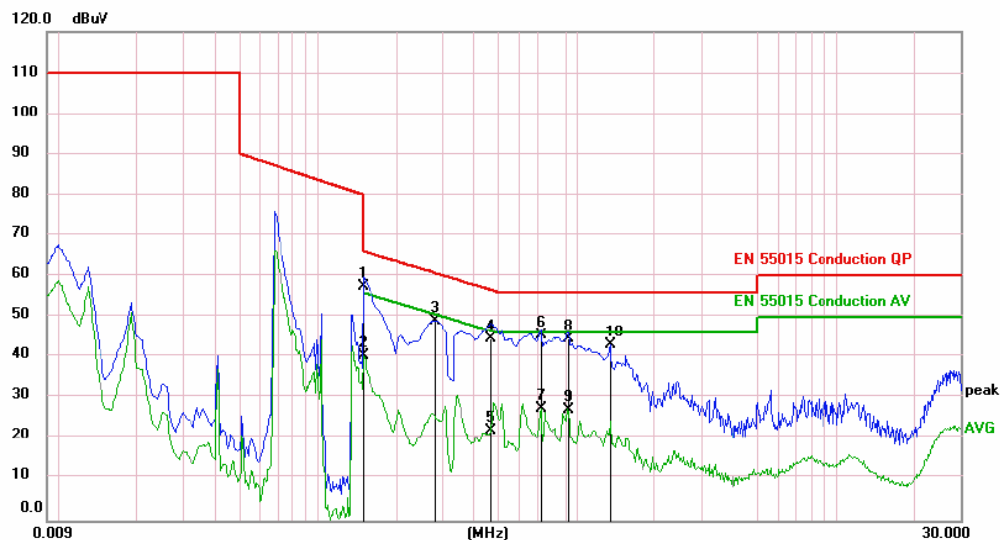


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#12 Date: 2018-12-6 Time: 22:38:26



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	47.73	9.73	57.46	66.00	-8.54	QP	
2		0.1500	30.53	9.73	40.26	56.00	-15.74	AVG	
3		0.2805	39.40	9.76	49.16	60.80	-11.64	peak	
4		0.4650	34.79	9.78	44.57	56.60	-12.03	QP	
5		0.4650	12.35	9.78	22.13	46.60	-24.47	AVG	
6		0.7215	35.57	9.80	45.37	56.00	-10.63	QP	
7		0.7215	17.72	9.80	27.52	46.00	-18.48	AVG	
8		0.9285	34.71	9.83	44.54	56.00	-11.46	QP	
9		0.9285	17.27	9.83	27.10	46.00	-18.90	AVG	
10		1.3405	33.27	9.86	43.13	56.00	-12.87	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#13 Date: 2018-12-6 Time: 22:53:50



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	44.18	9.73	53.91	66.00	-12.09	peak	
2 *	0.4515	35.59	9.78	45.37	56.85	-11.48	peak	
3	0.8925	29.80	9.82	39.62	56.00	-16.38	peak	
4	1.4205	25.83	9.86	35.69	56.00	-20.31	peak	
5	4.1605	27.35	10.15	37.50	56.00	-18.50	peak	
6	16.5605	35.92	10.46	46.38	60.00	-13.62	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#14 Date: 2018-12-6 Time: 22:55:08



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	44.15	9.73	53.88	66.00	-12.12	peak	
2		0.2290	38.01	9.75	47.76	62.49	-14.73	peak	
3		0.5055	33.47	9.78	43.25	56.00	-12.75	peak	
4		0.8565	29.30	9.82	39.12	56.00	-16.88	peak	
5		4.2204	30.48	10.15	40.63	56.00	-15.37	peak	
6		16.8604	36.10	10.46	46.56	60.00	-13.44	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

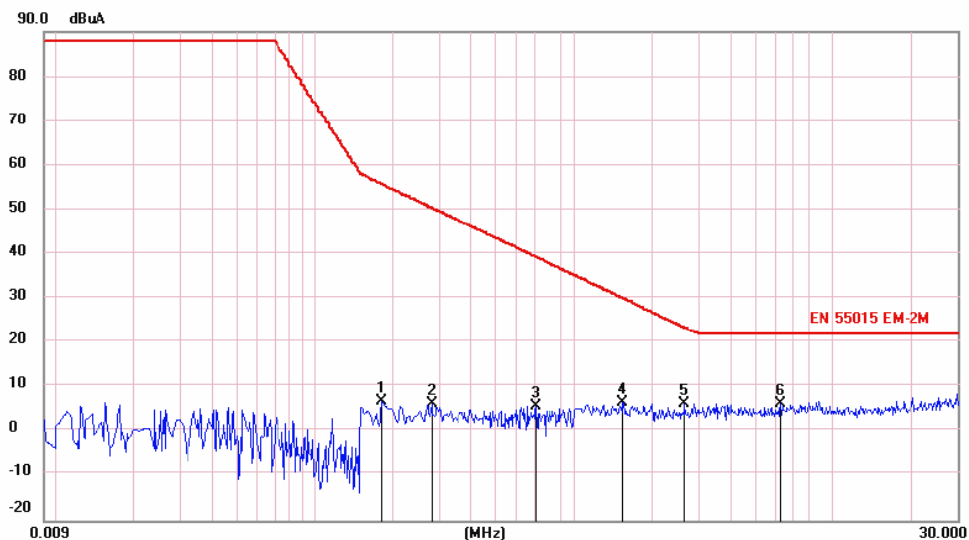


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#7 Date: 2018-12-12 Time: 10:24:16



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2		0.2805	6.05	0.08	6.13	50.48	-44.35	peak	
3		0.7124	5.69	0.08	5.77	39.28	-33.51	peak	
4		1.5403	6.35	0.10	6.45	30.01	-23.56	peak	
5		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
6	*	6.2602	6.00	0.18	6.18	22.00	-15.82	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

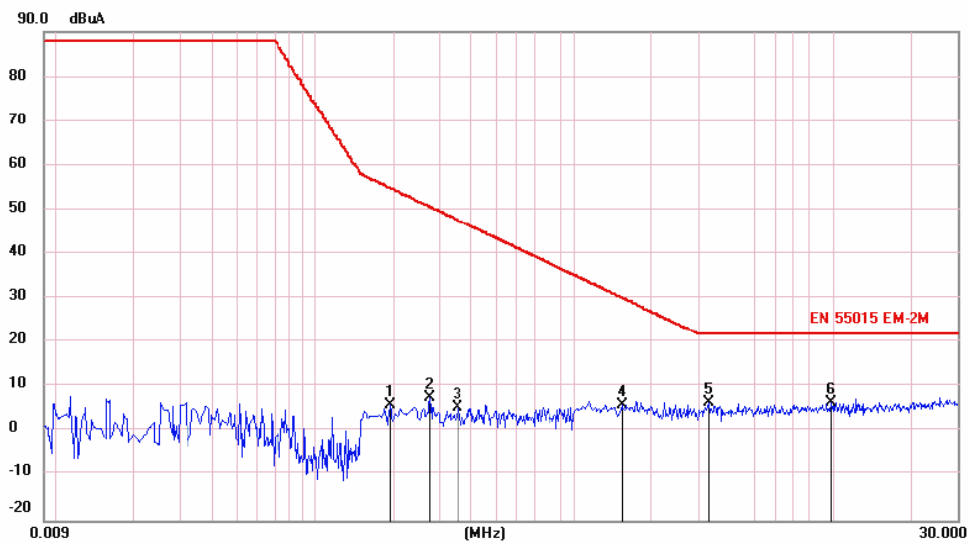


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#8 Date: 2018-12-12 Time: 10:29:15



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
3		0.3568	5.47	0.08	5.55	47.59	-42.04	peak	
4		1.5201	5.91	0.10	6.01	30.17	-24.16	peak	
5	*	3.3003	6.49	0.13	6.62	22.00	-15.38	peak	
6		9.8201	6.44	0.18	6.62	22.00	-15.38	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

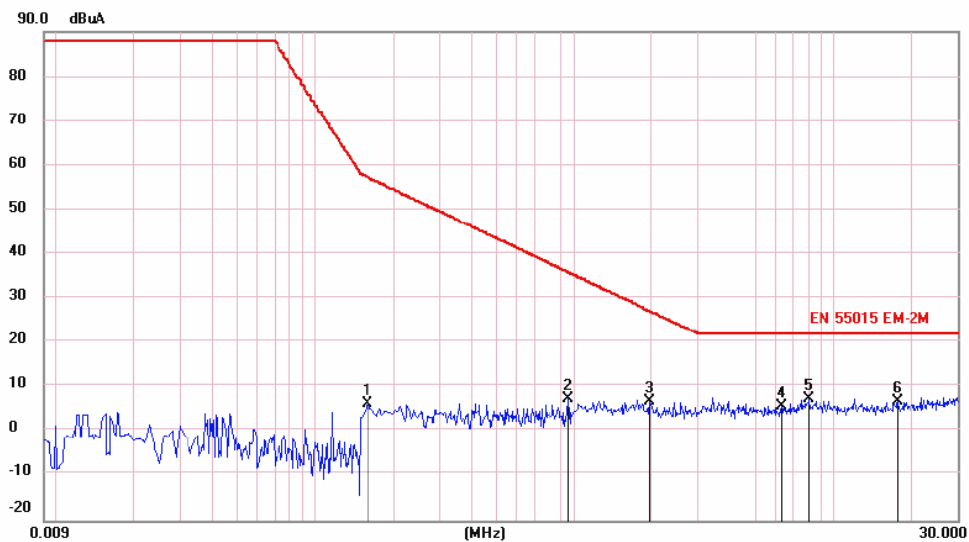


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#9 Date: 2018-12-12 Time: 10:32:03



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1590	6.31	0.08	6.39	57.30	-50.91	peak	
2		0.9506	7.14	0.10	7.24	35.81	-28.57	peak	
3		1.9600	6.62	0.10	6.72	27.12	-20.40	peak	
4		6.2804	5.56	0.18	5.74	22.00	-16.26	peak	
5	*	8.0004	7.17	0.19	7.36	22.00	-14.64	peak	
6		17.5803	6.34	0.34	6.68	22.00	-15.32	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: Y

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-6060-35D-65

Mode: Lighting

Note: I789

Engineer Signature: Anne

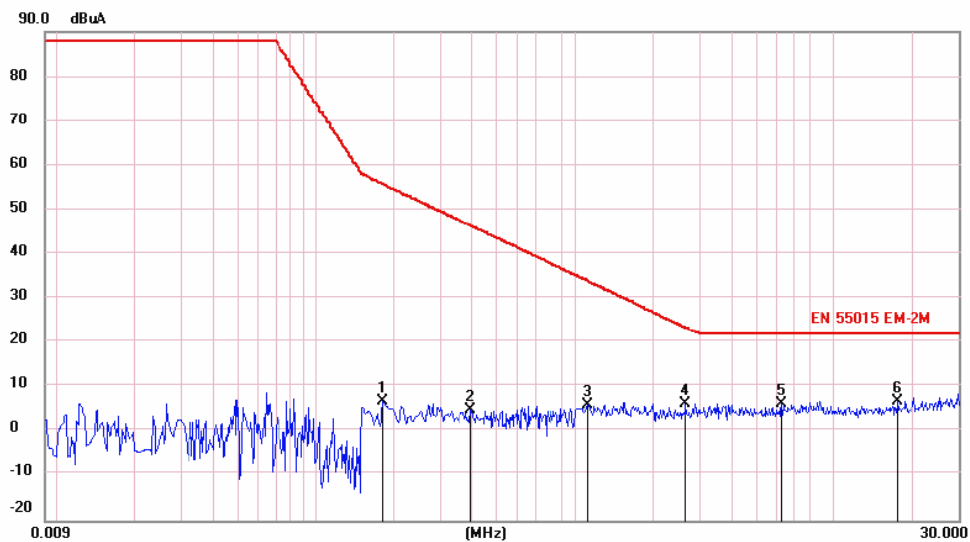
Conducted Emission Measurement

File :EM

Data :#10

Date: 2018-12-12

Time: 10:36:15



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2		0.3975	4.88	0.08	4.96	46.29	-41.33	peak	
3		1.1204	6.00	0.10	6.10	33.84	-27.74	peak	
4		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
5		6.2602	6.00	0.18	6.18	22.00	-15.82	peak	
6	*	17.4801	6.54	0.34	6.88	22.00	-15.12	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: **Z**

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-6060-35D-65

Mode: Lighting

Note: I789

Engineer Signature: Anne

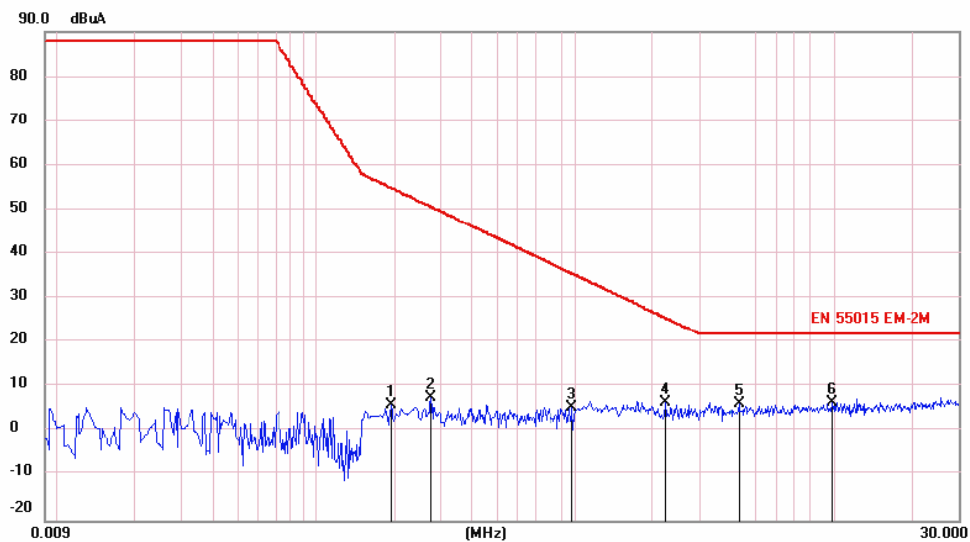
Conducted Emission Measurement

File :EM

Data :#11

Date: 2018-12-12

Time: 10:42:51



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
3		0.9778	5.43	0.10	5.53	35.47	-29.94	peak	
4		2.2204	6.47	0.10	6.57	25.62	-19.05	peak	
5		4.3003	6.05	0.15	6.20	22.00	-15.80	peak	
6	*	9.8201	6.44	0.18	6.62	22.00	-15.38	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: X

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-6060-35D-65

Mode: Lighting

Note: I789

Engineer Signature: Anne

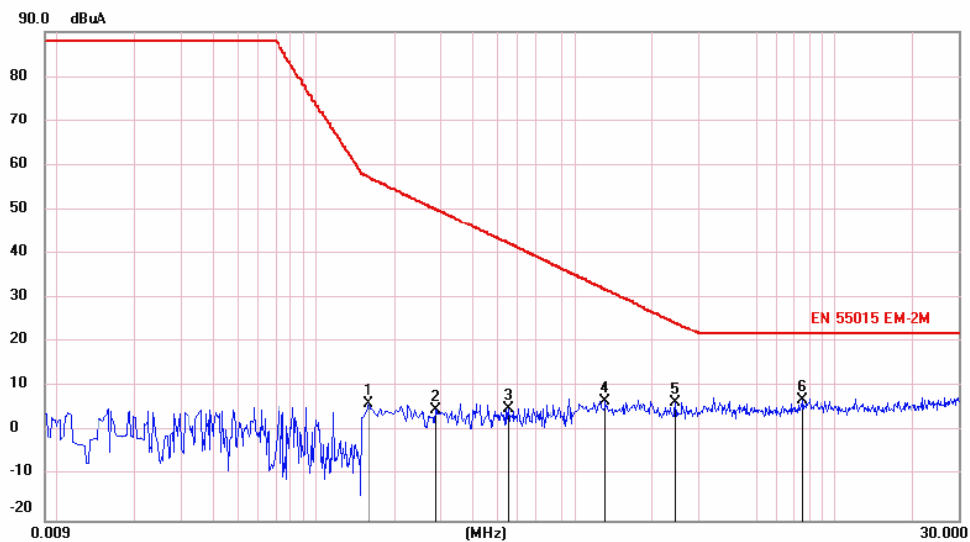
Conducted Emission Measurement

File :EM

Data :#12

Date: 2018-12-12

Time: 10:49:03



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1590	6.31	0.08	6.39	57.30	-50.91	peak	
2		0.2893	4.93	0.08	5.01	50.11	-45.10	peak	
3		0.5503	5.08	0.08	5.16	42.38	-37.22	peak	
4		1.3004	6.61	0.10	6.71	32.05	-25.34	peak	
5		2.4403	6.52	0.11	6.63	24.48	-17.85	peak	
6	*	7.5003	6.79	0.19	6.98	22.00	-15.02	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

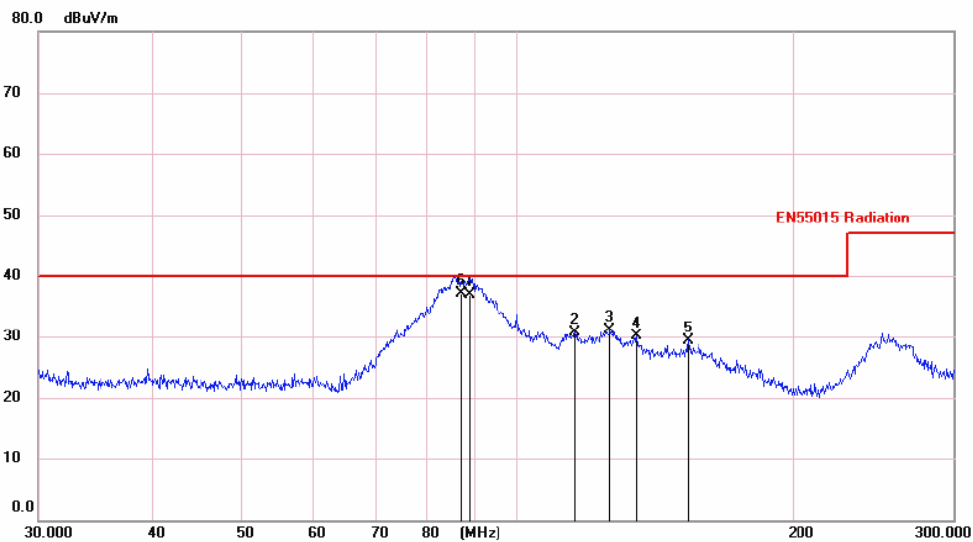
Radiated Emission Measurement

File: 拓博光电

Data: #11

Date: 2018/12/6

Time: 20:35:52



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		88.7404	27.24	9.76	37.00	40.00	-3.00	QP		
2		115.6435	18.48	12.13	30.61	40.00	-9.39	peak		
3		126.8006	18.04	13.02	31.06	40.00	-8.94	peak		
4		135.2450	16.52	13.55	30.07	40.00	-9.93	peak		
5		153.8584	14.84	14.56	29.40	40.00	-10.60	peak		
6	*	87.0216	27.29	9.73	37.02	40.00	-2.98	QP		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

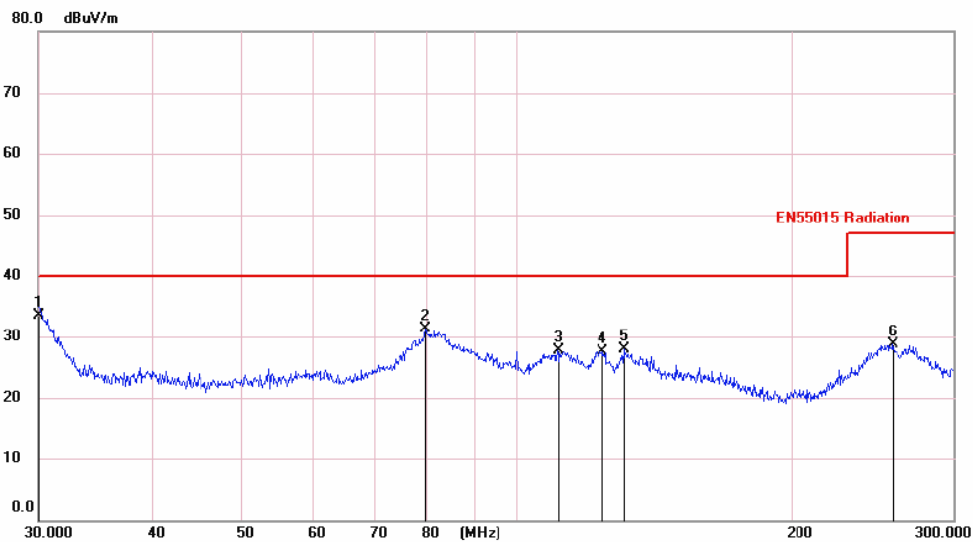
Radiated Emission Measurement

File: 拓博光电

Data: #12

Date: 2018/12/6

Time: 20:40:39



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.0000	20.31	13.25	33.56	40.00	-6.44	QP		
2		79.4550	21.73	9.48	31.21	40.00	-8.79	peak		
3		110.9485	16.02	11.62	27.64	40.00	-12.36	peak		
4		123.9143	14.71	12.85	27.56	40.00	-12.44	peak		
5		130.9546	14.71	13.29	28.00	40.00	-12.00	peak		
6		257.7041	16.37	12.27	28.64	47.00	-18.36	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

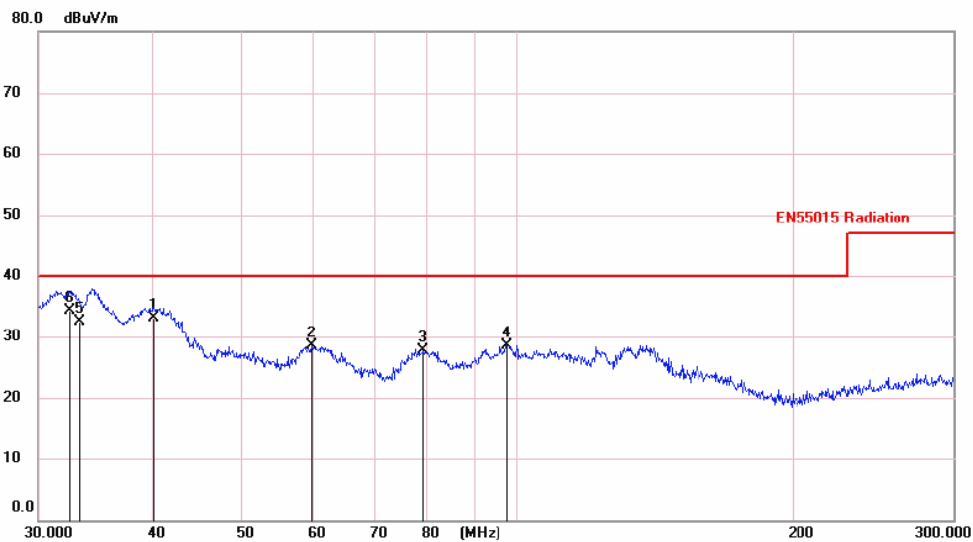


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #13 Date: 2018/12/6 Time: 21:03:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		40.0979	18.78	14.23	33.01	40.00	-6.99	QP		
2		59.7202	15.45	13.01	28.46	40.00	-11.54	peak		
3		79.0899	18.15	9.51	27.66	40.00	-12.34	peak		
4		97.5262	18.19	10.33	28.52	40.00	-11.48	peak		
5		33.2674	19.00	13.44	32.44	40.00	-7.56	QP		
6	*	32.3702	20.94	13.41	34.35	40.00	-5.65	QP		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

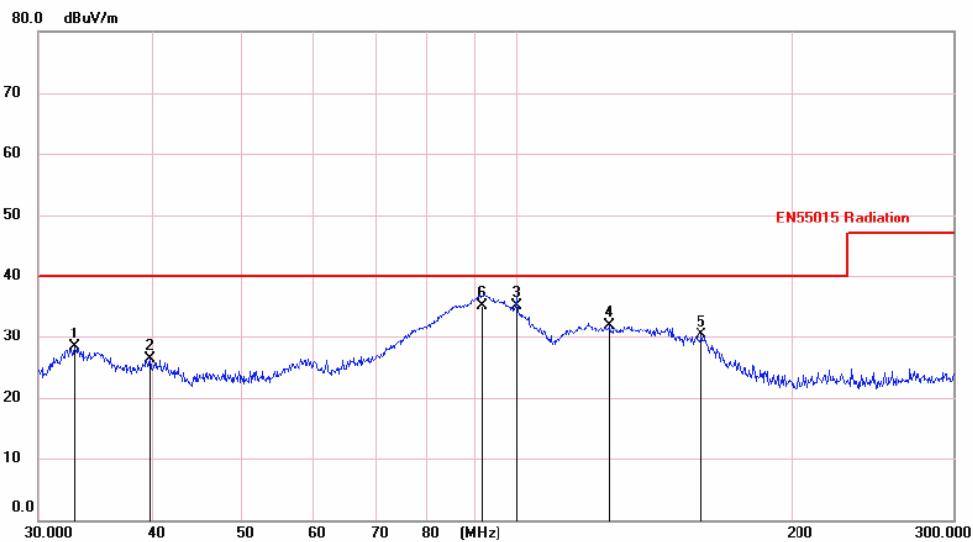


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-35D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #14 Date: 2018/12/6 Time: 21:15:40



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		32.8187	14.78	13.43	28.21	40.00	-11.79	peak		
2		39.7301	12.05	14.23	26.28	40.00	-13.72	peak		
3		100.0279	24.40	10.61	35.01	40.00	-4.99	QP		
4		126.8006	18.80	13.02	31.82	40.00	-8.18	peak		
5		159.2652	15.72	14.58	30.30	40.00	-9.70	peak		
6	*	91.5216	25.30	9.89	35.19	40.00	-4.81	QP		

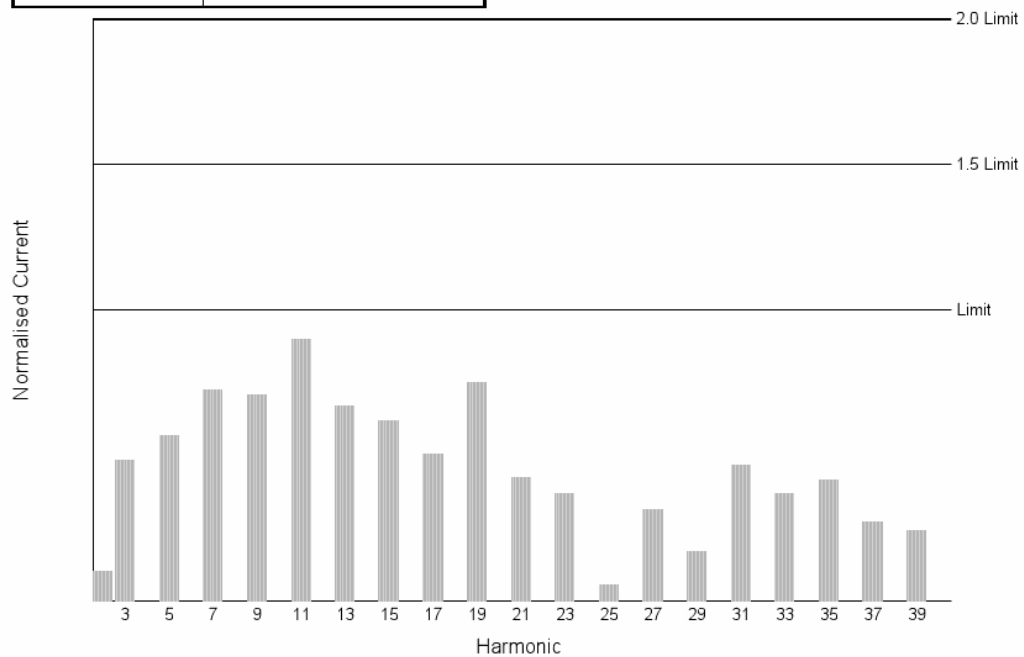
Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Product: BLIT-6060-35D-65 Serial no: AGT-I789 Description: Lighting Test Date: 2018 Dec 6 13:45 Result Name: AGT-I789 H		2018 Dec 6 13:52 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.7565
Specified Power:	0.0000	36.2486
Fundamental Current:	0.1580	0.1596
Power Factor:	0.9680	0.9782
Average Input Current:		0.1562
Maximum POHC:		0.0049
POHC Limit:		0.0150
Maximum THC:		0.0273
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA		
Product:	BLIT-6060-35D-65	2018 Dec 6 13:52
Serial no:	AGT-I789	Page 2 of 3
Description:	Lighting	
Result Name:	AGT-I789 H	
Voltech IEC61000-3 Windows Software 1.24.12		Test Date: 2018 Dec 6 13:45
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)	
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source:	Mains / Manual Source	
Overall Result:	PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-6060-35D-65	2018 Dec 6 13:53
Serial no: AGT-I789	Page 3 of 3
Description: Lighting	
Result Name: AGT-I789 H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 6 13:45
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	3.160mA	4.740mA	0.260mA	N/A	0.317mA	N/A	N/A	3	45.88mA	88.82mA	22.08mA	✓✓	22.16mA	✓	Pass
4	None	None	0.160mA		0.216mA		N/A	5	15.80mA	23.70mA	8.899mA	✓✓	8.947mA	✓	Pass
6	None	None	0.173mA		0.222mA		N/A	7	11.06mA	16.59mA	7.995mA	✓✓	8.026mA	✓	Pass
8	None	None	0.147mA		0.189mA		N/A	9	7.900mA	11.85mA	5.559mA	✓✓	5.603mA	✓	Pass
10	None	None	0.163mA		0.197mA		N/A	11	4.740mA	7.110mA	4.234mA	N/A	4.256mA	N/A	N/A
12	None	None	0.194mA		0.244mA		N/A	13	4.740mA	7.110mA	3.147mA	N/A	3.174mA	N/A	N/A
14	None	None	0.153mA		0.191mA		N/A	15	4.740mA	7.110mA	2.913mA	N/A	2.936mA	N/A	N/A
16	None	None	0.146mA		0.191mA		N/A	17	4.740mA	7.110mA	2.396mA	N/A	2.393mA	N/A	N/A
18	None	None	0.164mA		0.201mA		N/A	19	4.740mA	7.110mA	3.515mA	N/A	3.548mA	N/A	N/A
20	None	None	0.152mA		0.184mA		N/A	21	4.740mA	7.110mA	1.935mA	N/A	2.003mA	N/A	N/A
22	None	None	0.160mA		0.190mA		N/A	23	4.740mA	7.110mA	1.731mA	N/A	1.752mA	N/A	N/A
24	None	None	0.166mA		0.192mA		N/A	25	4.740mA	7.110mA	0.226mA	N/A	0.250mA	N/A	N/A
26	None	None	0.150mA		0.190mA		N/A	27	4.740mA	7.110mA	1.454mA	N/A	1.485mA	N/A	N/A
28	None	None	0.162mA		0.180mA		N/A	29	4.740mA	7.110mA	0.785mA	N/A	0.808mA	N/A	N/A
30	None	None	0.155mA		0.183mA		N/A	31	4.740mA	7.110mA	2.158mA	N/A	2.204mA	N/A	N/A
32	None	None	0.159mA		0.185mA		N/A	33	4.740mA	7.110mA	1.700mA	N/A	1.742mA	N/A	N/A
34	None	None	0.127mA		0.155mA		N/A	35	4.740mA	7.110mA	1.955mA	N/A	1.974mA	N/A	N/A
36	None	None	0.171mA		0.189mA		N/A	37	4.740mA	7.110mA	1.252mA	N/A	1.285mA	N/A	N/A
38	None	None	0.138mA		0.155mA		N/A	39	4.740mA	7.110mA	1.062mA	N/A	1.136mA	N/A	N/A
40	None	None	0.146mA		0.161mA		N/A								

<L1 : Reading is below limit 1.

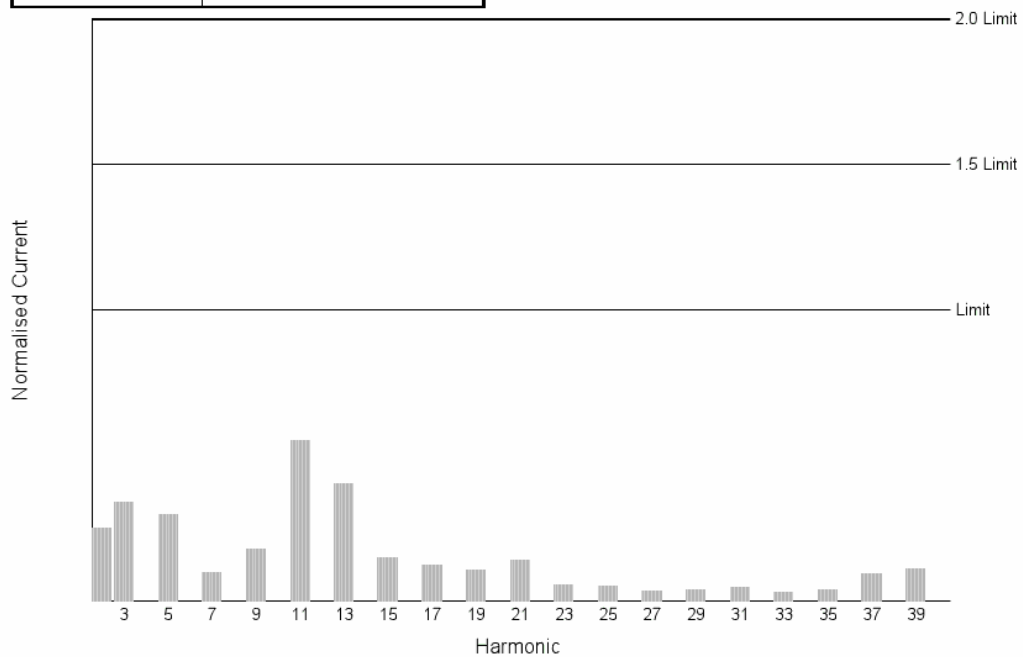
<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.

Product: BLIT-6060-35D-65 Serial no: LF-GIF040YA(H) Description: Lighting Test Date: 2018 Dec 6 13:57 Result Name: LF-GIF040YA(H)-H		2018 Dec 6 14:01 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.7668
Specified Power:	0.0000	34.2419
Fundamental Current:	0.1560	0.1543
Power Factor:	0.9570	0.9970
Average Input Current:		0.1493
Maximum POHC:		0.0010
POHC Limit:		0.0148
Maximum THC:		0.0162
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA		
Product:	BLIT-6060-35D-65	2018 Dec 6 14:01
Serial no:	LF-GIF040YA(H)	Page 2 of 3
Description:	Lighting	
Result Name:	LF-GIF040YA(H)-H	
Voltech IEC61000-3 Windows Software 1.24.12		Test Date: 2018 Dec 6 13:57
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)	
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source:	Mains / Manual Source	
Overall Result:	PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-6060-35D-65	2018 Dec 6 14:01
Serial no: LF-GIF040YA(H)	Page 3 of 3
Description: Lighting	
Result Name: LF-GIF040YA(H)-H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 6 13:57
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	3.120mA	4.680mA	0.736mA	N/A	0.778mA	N/A	N/A	3	44.78mA	67.18mA	15.00mA	✓✓	15.06mA	✓	Pass
4	None	None	0.301mA		0.328mA		N/A	5	15.59mA	23.40mA	4.560mA	N/A	4.590mA	N/A	N/A
6	None	None	0.234mA		0.247mA		N/A	7	10.92mA	16.38mA	1.010mA	N/A	1.031mA	N/A	N/A
8	None	None	0.199mA		0.221mA		N/A	9	7.800mA	11.70mA	1.353mA	N/A	1.380mA	N/A	N/A
10	None	None	0.117mA		0.131mA		N/A	11	4.680mA	7.020mA	2.562mA	N/A	2.586mA	N/A	N/A
12	None	None	0.195mA		0.210mA		N/A	13	4.680mA	7.020mA	1.869mA	N/A	1.886mA	N/A	N/A
14	None	None	0.090mA		0.100mA		N/A	15	4.680mA	7.020mA	0.673mA	N/A	0.689mA	N/A	N/A
16	None	None	0.127mA		0.138mA		N/A	17	4.680mA	7.020mA	0.562mA	N/A	0.578mA	N/A	N/A
18	None	None	0.107mA		0.118mA		N/A	19	4.680mA	7.020mA	0.469mA	N/A	0.482mA	N/A	N/A
20	None	None	0.114mA		0.126mA		N/A	21	4.680mA	7.020mA	0.633mA	N/A	0.648mA	N/A	N/A
22	None	None	0.118mA		0.129mA		N/A	23	4.680mA	7.020mA	0.235mA	N/A	0.248mA	N/A	N/A
24	None	None	0.142mA		0.156mA		N/A	25	4.680mA	7.020mA	0.211mA	N/A	0.226mA	N/A	N/A
26	None	None	0.102mA		0.114mA		N/A	27	4.680mA	7.020mA	0.136mA	N/A	0.153mA	N/A	N/A
28	None	None	0.087mA		0.098mA		N/A	29	4.680mA	7.020mA	0.156mA	N/A	0.170mA	N/A	N/A
30	None	None	0.101mA		0.112mA		N/A	31	4.680mA	7.020mA	0.201mA	N/A	0.214mA	N/A	N/A
32	None	None	0.083mA		0.092mA		N/A	33	4.680mA	7.020mA	0.120mA	N/A	0.132mA	N/A	N/A
34	None	None	0.094mA		0.107mA		N/A	35	4.680mA	7.020mA	0.162mA	N/A	0.171mA	N/A	N/A
36	None	None	0.111mA		0.123mA		N/A	37	4.680mA	7.020mA	0.410mA	N/A	0.426mA	N/A	N/A
38	None	None	0.094mA		0.094mA		N/A	39	4.680mA	7.020mA	0.492mA	N/A	0.505mA	N/A	N/A
40	None	None	0.087mA		0.098mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#7 Date: 2018-12-6 Time: 22:23:01



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1905	44.13	9.74	53.87	64.01	-10.14	peak	
2		0.3120	39.57	9.77	49.34	59.92	-10.58	peak	
3		0.4380	35.37	9.78	45.15	57.10	-11.95	QP	
4		0.4380	16.02	9.78	25.80	47.10	-21.30	AVG	
5		0.7260	35.34	9.80	45.14	56.00	-10.86	QP	
6		0.7260	19.09	9.80	28.89	46.00	-17.11	AVG	
7		1.1205	35.20	9.84	45.04	56.00	-10.96	QP	
8		1.1205	17.53	9.84	27.37	46.00	-18.63	AVG	
9		1.7805	33.86	9.91	43.77	56.00	-12.23	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#8 Date: 2018-12-6 Time: 22:25:20



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	44.71	9.73	54.44	66.00	-11.56	QP	
2		0.1500	25.19	9.73	34.92	56.00	-21.08	AVG	
3	*	0.1949	44.49	9.74	54.23	63.83	-9.60	QP	
4		0.1949	27.15	9.74	36.89	53.83	-16.94	AVG	
5		0.4290	35.19	9.78	44.97	57.27	-12.30	QP	
6		0.4290	16.12	9.78	25.90	47.27	-21.37	AVG	
7		0.7260	35.84	9.80	45.64	56.00	-10.36	QP	
8		0.7260	19.39	9.80	29.19	46.00	-16.81	AVG	
9		1.1205	35.48	9.84	45.32	56.00	-10.68	QP	
10		1.1205	17.58	9.84	27.42	46.00	-18.58	AVG	
11		1.9005	33.83	9.91	43.74	56.00	-12.26	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

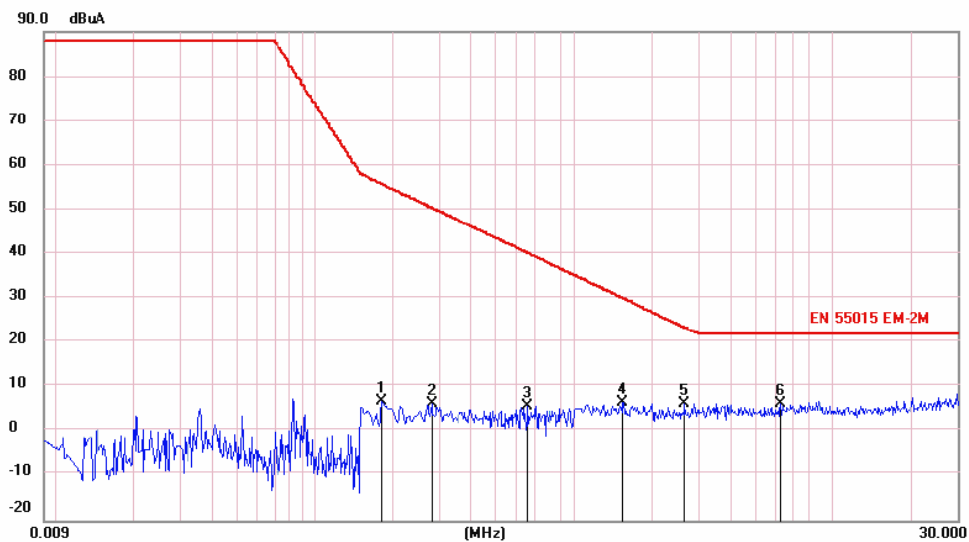


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#13 Date: 2018-12-12 Time: 10:52:15



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2		0.2805	6.05	0.08	6.13	50.48	-44.35	peak	
3		0.6582	5.65	0.08	5.73	40.23	-34.50	peak	
4		1.5403	6.35	0.10	6.45	30.01	-23.56	peak	
5		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
6	*	6.2602	6.00	0.18	6.18	22.00	-15.82	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

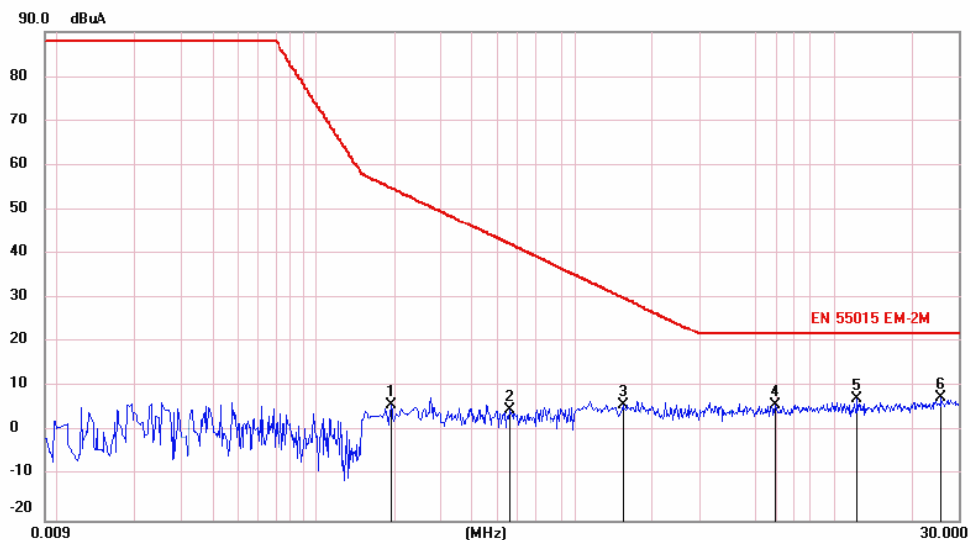


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#14 Date: 2018-12-12 Time: 10:58:51



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.5594	4.84	0.08	4.92	42.18	-37.26	peak	
3		1.5201	5.91	0.10	6.01	30.17	-24.16	peak	
4		5.9203	5.79	0.18	5.97	22.00	-16.03	peak	
5		12.2804	7.07	0.22	7.29	22.00	-14.71	peak	
6	*	25.8600	6.86	0.68	7.54	22.00	-14.46	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

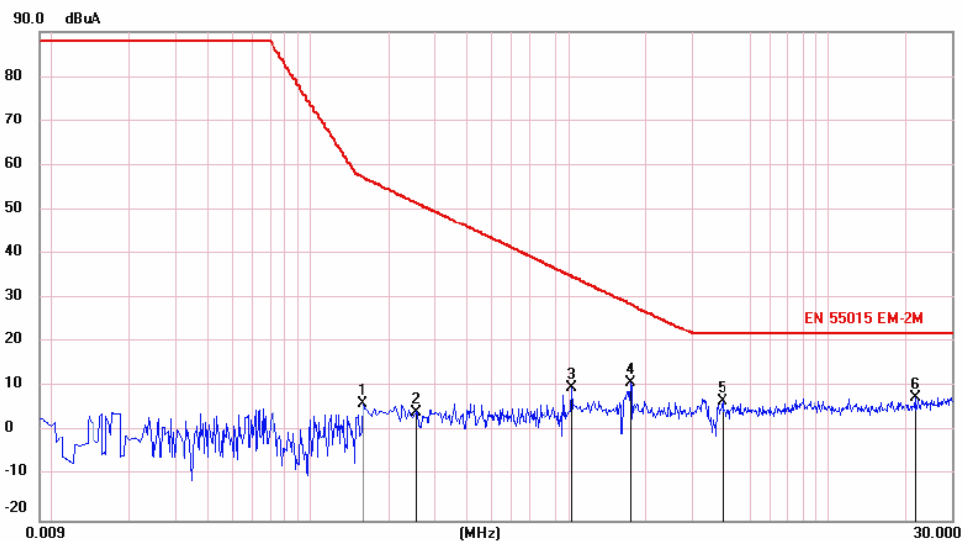


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#15 Date: 2018-12-12 Time: 11:05:03



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuA	dB	dBuA	dBuA	dB		
1	0.1590	6.31	0.08	6.39	57.30	-50.91	peak	
2	0.2584	4.13	0.08	4.21	51.46	-47.25	peak	
3	1.0201	9.73	0.10	9.83	34.96	-25.13	peak	
4	1.7200	10.86	0.10	10.96	28.68	-17.72	peak	
5	3.9003	6.73	0.14	6.87	22.00	-15.13	peak	
6 *	21.8600	7.11	0.50	7.61	22.00	-14.39	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

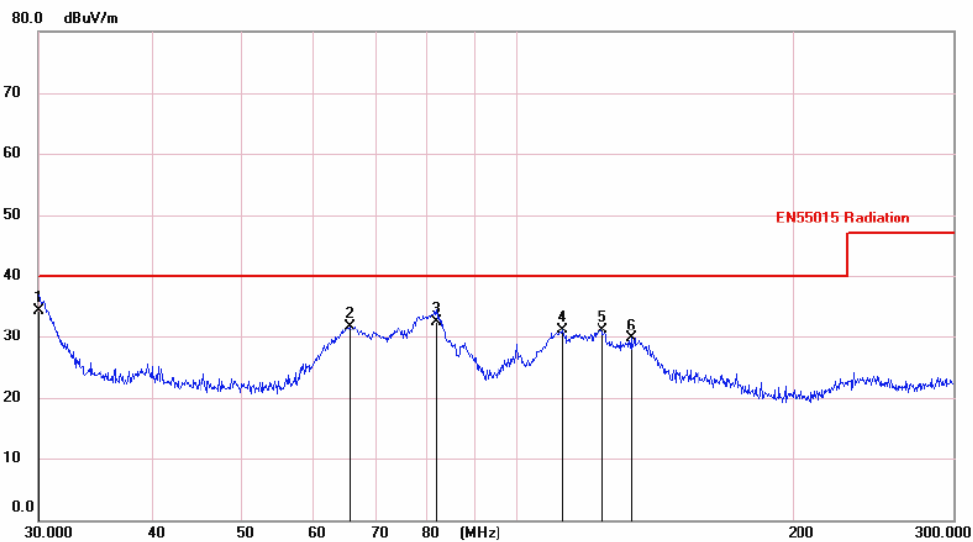


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #5 Date: 2018/12/6 Time: 19:47:06



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	30.1385	21.04	13.27	34.31	40.00	-5.69	QP		
2		65.7841	19.91	11.85	31.76	40.00	-8.24	peak		
3		81.6810	23.05	9.51	32.56	40.00	-7.44	QP		
4		111.9750	19.32	11.73	31.05	40.00	-8.95	peak		
5		123.9143	18.20	12.85	31.05	40.00	-8.95	peak		
6		133.6969	16.33	13.46	29.79	40.00	-10.21	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-6060-45D-65		
Mode: Lighting		
Note: LF-GIF050YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电

Data: #6

Date: 2018/12/6

Time: 19:52:36



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	80.7460	25.54	9.47	35.01	40.00	-4.99	QP		
2		98.2022	24.26	10.35	34.61	40.00	-5.39	peak		
3		126.2180	19.57	12.99	32.56	40.00	-7.44	QP		
4		151.7474	14.96	14.56	29.52	40.00	-10.48	peak		
5		240.5034	12.76	11.99	24.75	47.00	-22.25	peak		
6		87.5686	25.00	9.73	34.73	40.00	-5.27	QP		

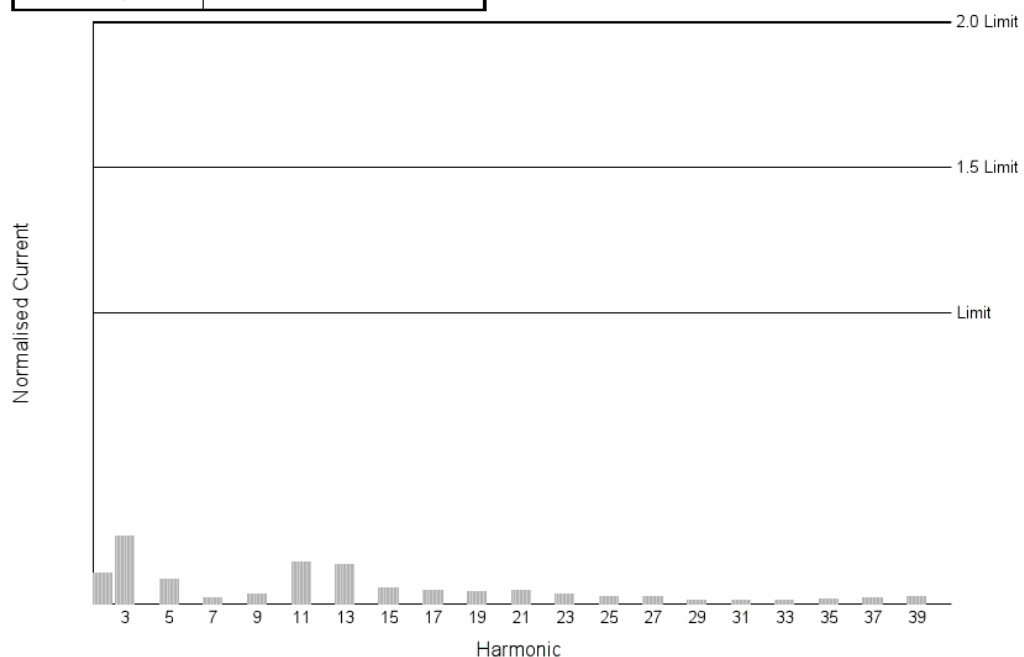
Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Product: BLIT-6060-45D-65 Serial no: LF-GIF050YA(H) Description: Lighting Test Date: 2018 Dec 7 10:39 Result Name: LF-GIF050YA(H) H		2018 Dec 7 10:55 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.5094
Specified Power:	0.0000	44.9124
Fundamental Current:	0.5770	0.2019
Power Factor:	0.3480	0.9558
Average Input Current:		0.2043
Maximum POHC:		0.0013
POHC Limit:		0.0547
Maximum THC:		0.0154
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA	
Product: BLIT-6060-45D-65	2018 Dec 7 10:55
Serial no: LF-GIF050YA(H)	Page 2 of 3
Description: Lighting	
Result Name: LF-GIF050YA(H) H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 7 10:39
Type of Test: Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006) Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-6060-45D-65	2018 Dec 7 10:55
Serial no: LF-GIF050YA(H)	Page 3 of 3
Description: Lighting	
Result Name: LF-GIF050YA(H) H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 7 10:39
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	11.54mA	17.31mA	1.181mA	N/A	1.216mA	N/A	N/A	3	60.23mA	90.35mA	13.98mA	✓✓	14.02mA	✓	Pass
4	None	None	0.550mA		0.577mA		N/A	5	57.70mA	86.54mA	4.748mA	N/A	4.775mA	N/A	N/A
6	None	None	0.286mA		0.304mA		N/A	7	40.38mA	60.58mA	0.853mA	N/A	0.873mA	N/A	N/A
8	None	None	0.310mA		0.342mA		N/A	9	28.85mA	43.27mA	0.867mA	N/A	0.889mA	N/A	N/A
10	None	None	0.157mA		0.170mA		N/A	11	17.31mA	25.96mA	2.440mA	N/A	2.462mA	N/A	N/A
12	None	None	0.312mA		0.333mA		N/A	13	17.31mA	25.96mA	2.339mA	N/A	2.360mA	N/A	N/A
14	None	None	0.183mA		0.204mA		N/A	15	17.31mA	25.96mA	0.893mA	N/A	0.910mA	N/A	N/A
16	None	None	0.172mA		0.190mA		N/A	17	17.31mA	25.96mA	0.737mA	N/A	0.754mA	N/A	N/A
18	None	None	0.206mA		0.225mA		N/A	19	17.31mA	25.96mA	0.660mA	N/A	0.676mA	N/A	N/A
20	None	None	0.136mA		0.152mA		N/A	21	17.31mA	25.96mA	0.799mA	N/A	0.814mA	N/A	N/A
22	None	None	0.144mA		0.160mA		N/A	23	17.31mA	25.96mA	0.531mA	N/A	0.545mA	N/A	N/A
24	None	None	0.160mA		0.175mA		N/A	25	17.31mA	25.96mA	0.414mA	N/A	0.430mA	N/A	N/A
26	None	None	0.183mA		0.195mA		N/A	27	17.31mA	25.96mA	0.407mA	N/A	0.422mA	N/A	N/A
28	None	None	0.144mA		0.153mA		N/A	29	17.31mA	25.96mA	0.208mA	N/A	0.220mA	N/A	N/A
30	None	None	0.125mA		0.136mA		N/A	31	17.31mA	25.96mA	0.163mA	N/A	0.179mA	N/A	N/A
32	None	None	0.117mA		0.130mA		N/A	33	17.31mA	25.96mA	0.181mA	N/A	0.193mA	N/A	N/A
34	None	None	0.108mA		0.121mA		N/A	35	17.31mA	25.96mA	0.227mA	N/A	0.242mA	N/A	N/A
36	None	None	0.144mA		0.163mA		N/A	37	17.31mA	25.96mA	0.314mA	N/A	0.330mA	N/A	N/A
38	None	None	0.102mA		0.116mA		N/A	39	17.31mA	25.96mA	0.421mA	N/A	0.434mA	N/A	N/A
40	None	None	0.119mA		0.129mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.

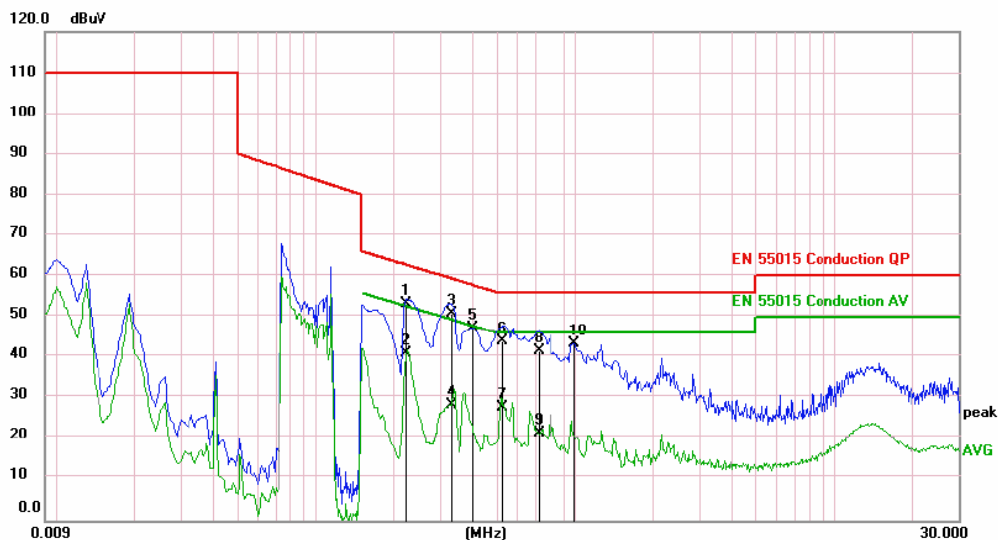


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#9 Date: 2018-12-6 Time: 22:30:25



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2220	43.60	9.75	53.35	62.74	-9.39	QP	
2		0.2220	31.19	9.75	40.94	52.74	-11.80	AVG	
3	*	0.3300	41.15	9.77	50.92	59.45	-8.53	QP	
4		0.3300	18.73	9.77	28.50	49.45	-20.95	AVG	
5		0.4065	37.56	9.77	47.33	57.72	-10.39	peak	
6		0.5280	34.24	9.79	44.03	56.00	-11.97	QP	
7		0.5280	18.08	9.79	27.87	46.00	-18.13	AVG	
8		0.7215	31.89	9.80	41.69	56.00	-14.31	QP	
9		0.7215	11.54	9.80	21.34	46.00	-24.66	AVG	
10		0.9870	33.51	9.83	43.34	56.00	-12.66	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#10 Date: 2018-12-6 Time: 22:32:36



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	47.76	9.73	57.49	66.00	-8.51	QP	
2		0.1500	37.65	9.73	47.38	56.00	-8.62	AVG	
3		0.3209	38.87	9.77	48.64	59.68	-11.04	peak	
4		0.5190	33.84	9.79	43.63	56.00	-12.37	QP	
5		0.5190	19.05	9.79	28.84	46.00	-17.16	AVG	
6		0.7260	35.97	9.80	45.77	56.00	-10.23	peak	
7		1.2605	33.12	9.85	42.97	56.00	-13.03	peak	
8		2.1605	29.88	9.93	39.81	56.00	-16.19	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

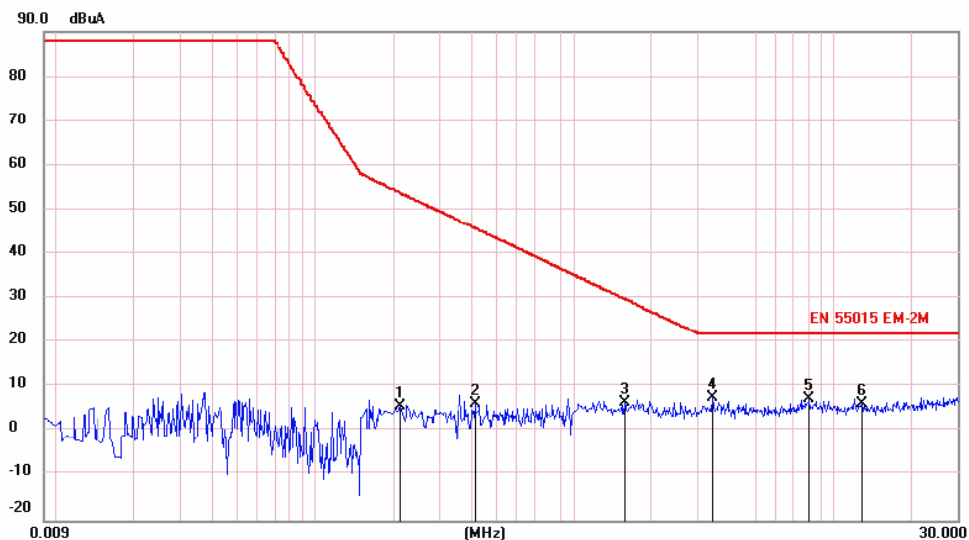


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#1 Date: 2018-12-12 Time: 10:01:03



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.2129	5.74	0.08	5.82	53.79	-47.97	peak	
2		0.4153	6.18	0.08	6.26	45.76	-39.50	peak	
3		1.5604	6.51	0.10	6.61	29.86	-23.25	peak	
4	*	3.4003	7.40	0.13	7.53	22.00	-14.47	peak	
5		8.0004	7.17	0.19	7.36	22.00	-14.64	peak	
6		12.8003	6.03	0.22	6.25	22.00	-15.75	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#2 Date: 2018-12-12 Time: 10:05:15



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.2179	9.54	0.08	9.62	53.51	-43.89	peak	
2		0.5503	7.74	0.08	7.82	42.38	-34.56	peak	
3		1.0804	9.31	0.10	9.41	34.27	-24.86	peak	
4		2.1604	8.23	0.10	8.33	25.95	-17.62	peak	
5		6.2602	6.00	0.18	6.18	22.00	-15.82	peak	
6	*	20.3002	7.27	0.43	7.70	22.00	-14.30	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

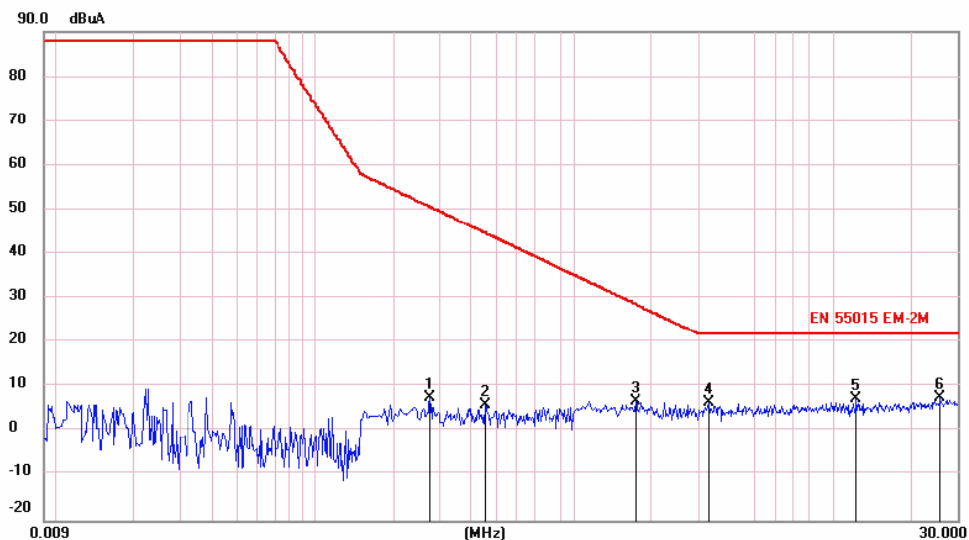


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#3 Date: 2018-12-12 Time: 10:09:57



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
2		0.4560	5.83	0.08	5.91	44.64	-38.73	peak	
3		1.7200	6.83	0.10	6.93	28.68	-21.75	peak	
4		3.3003	6.49	0.13	6.62	22.00	-15.38	peak	
5		12.2804	7.07	0.22	7.29	22.00	-14.71	peak	
6	*	25.8600	6.86	0.68	7.54	22.00	-14.46	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.3474	17.71	13.28	30.99	40.00	-9.01	peak		
2		39.0051	13.91	14.20	28.11	40.00	-11.89	peak		
3		80.3751	25.97	9.45	35.42	40.00	-4.58	peak		
4	*	107.2946	25.98	11.26	37.24	40.00	-2.76	QP		
5		119.9834	23.44	12.60	36.04	40.00	-3.96	peak		
6		173.0299	14.37	13.28	27.65	40.00	-12.35	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-30120-30D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电

Data: #2

Date: 2018/12/6

Time: 18:31:26



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		83.3914	28.69	9.59	38.28	40.00	-1.72	peak		
2	*	108.1560	27.66	11.34	39.00	40.00	-1.00	QP		
3		122.7782	23.65	12.77	36.42	40.00	-3.58	peak		
4		177.8776	20.90	12.50	33.40	40.00	-6.60	peak		
5		194.5903	22.58	10.66	33.24	40.00	-6.76	peak		
6		223.4196	21.67	11.47	33.14	40.00	-6.86	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

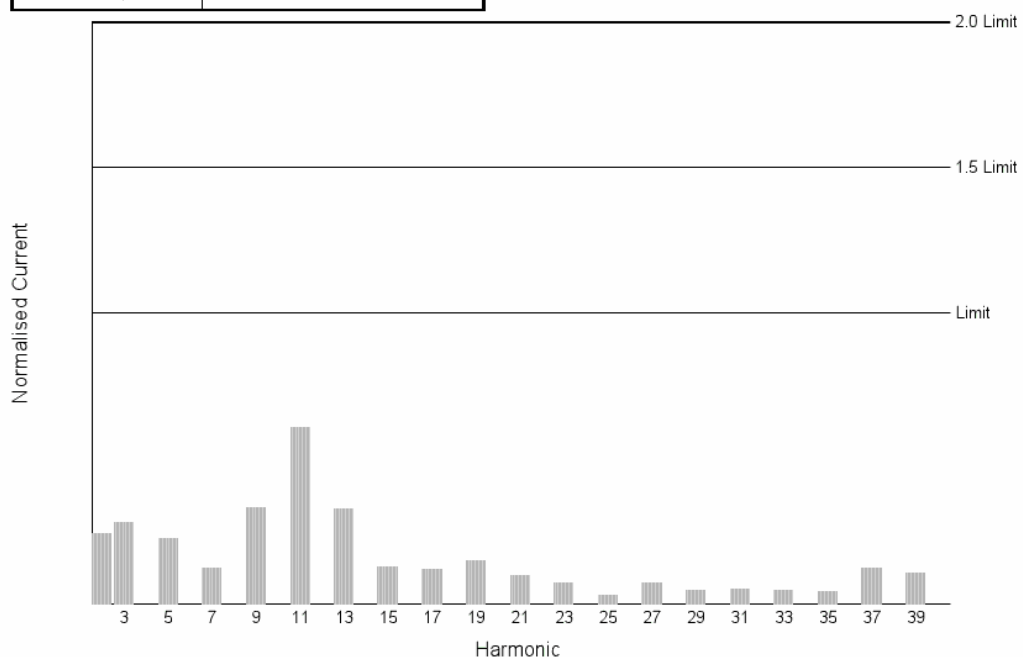
2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Product: BLIT-30120-30D-65 Serial no: LF-GIF040YA(H) Description: Lighting Test Date: 2018 Dec 6 16:23 Result Name: LF-GIF040YA(H)-30D-H		2018 Dec 6 16:33 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.7671
Specified Power:	0.0000	30.7162
Fundamental Current:	0.1400	0.1391
Power Factor:	0.9480	1.0000
Average Input Current:		0.1332
Maximum POHC:		0.0009
POHC Limit:		0.0133
Maximum THC:		0.0123
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA

Product:	BLIT-30120-30D-65	2018 Dec 6 16:33
Serial no:	LF-GIF040YA(H)	Page 2 of 3
Description:	Lighting	
Result Name:	LF-GIF040YA(H)-30D-H	
Voltech IEC61000-3 Windows Software 1.24.12		Test Date: 2018 Dec 6 16:23
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)	
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source:	Mains / Manual Source	
Overall Result:	PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-30120-30D-65	2018 Dec 6 16:33
Serial no: LF-GIF040YA(H)	Page 3 of 3
Description: Lighting	
Result Name: LF-GIF040YA(H)-30D-H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 6 16:23
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	2.800mA	4.200mA	0.627mA	N/A	0.868mA	N/A	N/A	3	39.81mA	59.72mA	11.08mA	✓✓	11.11mA	✓	Pass
4	None	None	0.185mA		0.205mA		N/A	5	13.99mA	21.00mA	3.134mA	N/A	3.156mA	N/A	N/A
6	None	None	0.234mA		0.253mA		N/A	7	9.800mA	14.70mA	1.174mA	N/A	1.190mA	N/A	N/A
8	None	None	0.120mA		0.141mA		N/A	9	7.000mA	10.50mA	2.287mA	N/A	2.306mA	N/A	N/A
10	None	None	0.134mA		0.145mA		N/A	11	4.200mA	6.300mA	2.535mA	N/A	2.548mA	N/A	N/A
12	None	None	0.163mA		0.176mA		N/A	13	4.200mA	6.300mA	1.359mA	N/A	1.372mA	N/A	N/A
14	None	None	0.112mA		0.127mA		N/A	15	4.200mA	6.300mA	0.520mA	N/A	0.533mA	N/A	N/A
16	None	None	0.113mA		0.126mA		N/A	17	4.200mA	6.300mA	0.477mA	N/A	0.495mA	N/A	N/A
18	None	None	0.092mA		0.105mA		N/A	19	4.200mA	6.300mA	0.603mA	N/A	0.623mA	N/A	N/A
20	None	None	0.117mA		0.127mA		N/A	21	4.200mA	6.300mA	0.396mA	N/A	0.412mA	N/A	N/A
22	None	None	0.091mA		0.099mA		N/A	23	4.200mA	6.300mA	0.287mA	N/A	0.302mA	N/A	N/A
24	None	None	0.147mA		0.163mA		N/A	25	4.200mA	6.300mA	0.104mA	N/A	0.113mA	N/A	N/A
26	None	None	0.091mA		0.101mA		N/A	27	4.200mA	6.300mA	0.275mA	N/A	0.290mA	N/A	N/A
28	None	None	0.105mA		0.114mA		N/A	29	4.200mA	6.300mA	0.179mA	N/A	0.190mA	N/A	N/A
30	None	None	0.089mA		0.096mA		N/A	31	4.200mA	6.300mA	0.194mA	N/A	0.210mA	N/A	N/A
32	None	None	0.091mA		0.101mA		N/A	33	4.200mA	6.300mA	0.176mA	N/A	0.190mA	N/A	N/A
34	None	None	0.087mA		0.096mA		N/A	35	4.200mA	6.300mA	0.167mA	N/A	0.179mA	N/A	N/A
36	None	None	0.097mA		0.109mA		N/A	37	4.200mA	6.300mA	0.489mA	N/A	0.503mA	N/A	N/A
38	None	None	0.086mA		0.094mA		N/A	39	4.200mA	6.300mA	0.421mA	N/A	0.433mA	N/A	N/A
40	None	None	0.092mA		0.103mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#1 Date: 2018-12-14 Time: 10:54:58



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.0090	56.87	9.92	66.79	110.0	-43.21	peak	
2		0.0210	54.78	9.87	64.65	110.0	-45.35	peak	
3		0.0600	57.85	9.69	67.54	88.34	-20.80	peak	
4		0.1500	45.18	9.73	54.91	66.00	-11.09	peak	
5	*	0.4425	37.56	9.78	47.34	57.01	-9.67	QP	
6		0.4425	23.08	9.78	32.86	47.01	-14.15	AVG	
7		16.7205	36.99	10.47	47.46	60.00	-12.54	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#2 Date: 2018-12-14 Time: 10:57:53



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.0187	54.67	9.88	64.55	110.0	-45.45	peak	
2		0.0600	58.44	9.69	68.13	88.34	-20.21	peak	
3		0.1527	44.96	9.73	54.69	65.85	-11.16	peak	
4	*	0.4740	36.73	9.78	46.51	56.44	-9.93	QP	
5		0.4740	24.07	9.78	33.85	46.44	-12.59	AVG	
6		1.8205	35.85	9.91	45.76	56.00	-10.24	peak	
7		17.3405	37.10	10.46	47.56	60.00	-12.44	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

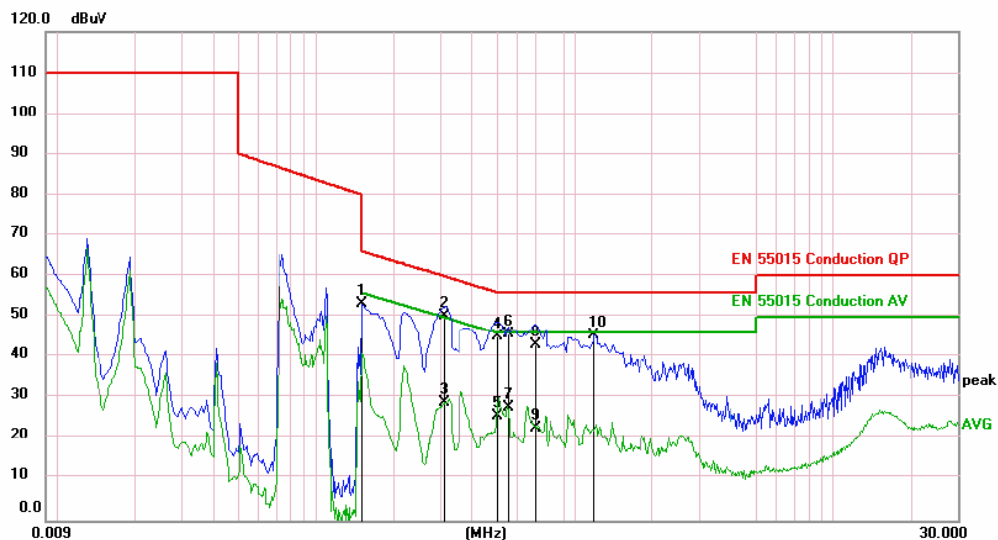


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :12 Data :#5 Date: 2018-12-6 Time: 22:13:04



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	43.54	9.73	53.27	66.00	-12.73	peak	
2 *	0.3120	40.48	9.77	50.25	59.92	-9.67	QP	
3	0.3120	19.06	9.77	28.83	49.92	-21.09	AVG	
4	0.5010	35.36	9.78	45.14	56.00	-10.86	QP	
5	0.5010	15.92	9.78	25.70	46.00	-20.30	AVG	
6	0.5505	35.98	9.79	45.77	56.00	-10.23	QP	
7	0.5505	17.97	9.79	27.76	46.00	-18.24	AVG	
8	0.6990	33.39	9.80	43.19	56.00	-12.81	QP	
9	0.6990	13.00	9.80	22.80	46.00	-23.20	AVG	
10	1.1805	35.63	9.85	45.48	56.00	-10.52	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

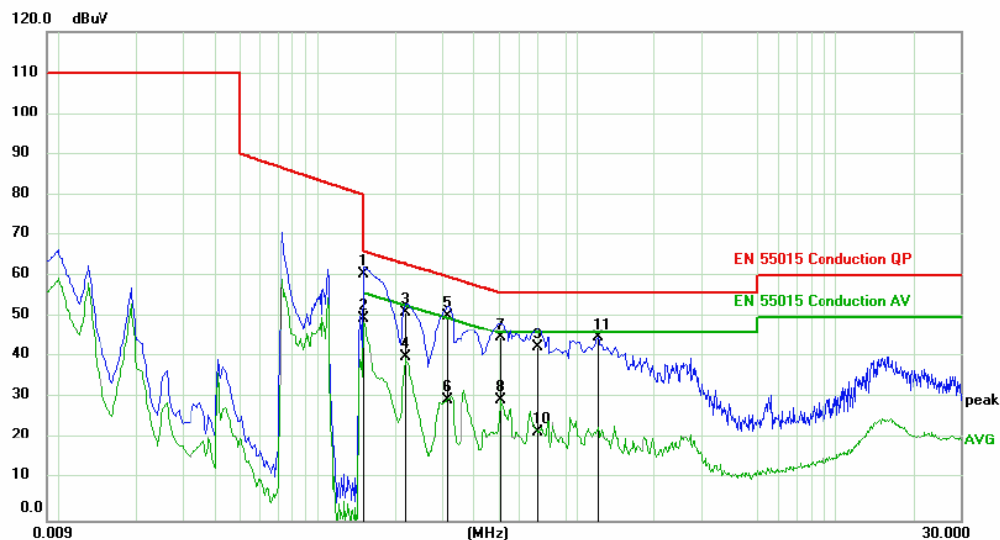


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :12 Data :#6 Date: 2018-12-6 Time: 22:16:07



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	50.76	9.73	60.49	66.00	-5.51	QP	
2		0.1500	39.83	9.73	49.56	56.00	-6.44	AVG	
3		0.2199	41.55	9.75	51.30	62.82	-11.52	QP	
4		0.2199	30.28	9.75	40.03	52.82	-12.79	AVG	
5		0.3165	40.58	9.77	50.35	59.80	-9.45	QP	
6		0.3165	19.91	9.77	29.68	49.80	-20.12	AVG	
7		0.5100	35.22	9.78	45.00	56.00	-11.00	QP	
8		0.5100	19.63	9.78	29.41	46.00	-16.59	AVG	
9		0.7035	32.65	9.80	42.45	56.00	-13.55	QP	
10		0.7035	12.10	9.80	21.90	46.00	-24.10	AVG	
11		1.2005	34.96	9.85	44.81	56.00	-11.19	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

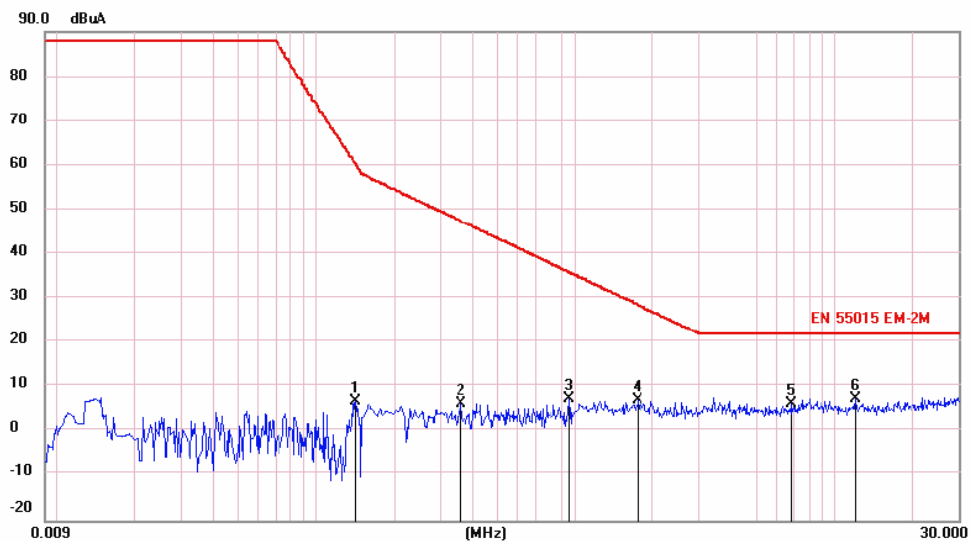


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :EM Data :#16 Date: 2018-12-12 Time: 11:09:21



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1408	6.80	0.08	6.88	60.49	-53.61	peak	
2		0.3613	6.23	0.08	6.31	47.44	-41.13	peak	
3		0.9506	7.14	0.10	7.24	35.81	-28.57	peak	
4		1.7400	6.87	0.10	6.97	28.55	-21.58	peak	
5		6.8403	6.15	0.18	6.33	22.00	-15.67	peak	
6	*	12.0800	7.08	0.21	7.29	22.00	-14.71	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

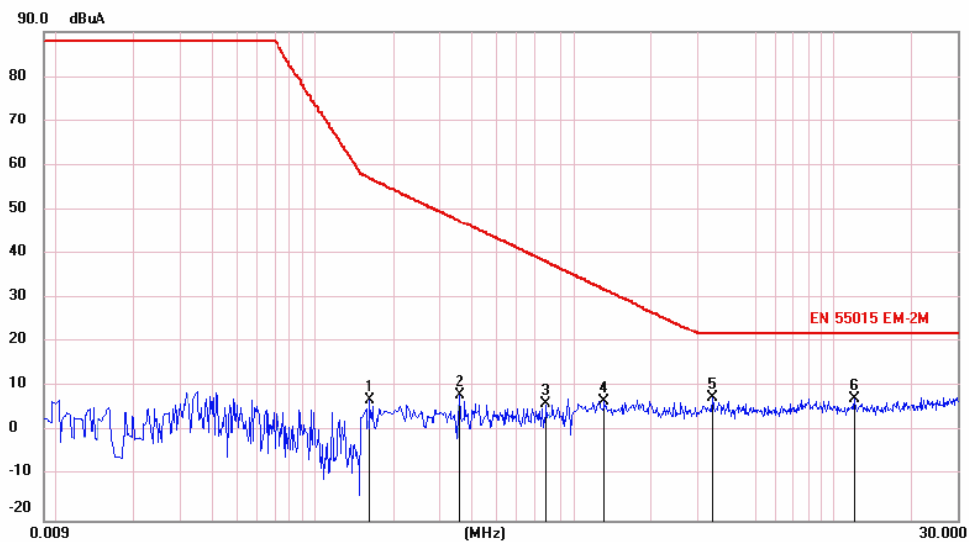


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :EM Data :#17 Date: 2018-12-12 Time: 11:12:31



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1635	7.13	0.08	7.21	56.96	-49.75	peak	
2		0.3613	8.23	0.08	8.31	47.44	-39.13	peak	
3		0.7752	6.03	0.10	6.13	38.26	-32.13	peak	
4		1.3004	6.61	0.10	6.71	32.05	-25.34	peak	
5	*	3.4003	7.40	0.13	7.53	22.00	-14.47	peak	
6		12.0800	7.08	0.21	7.29	22.00	-14.71	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

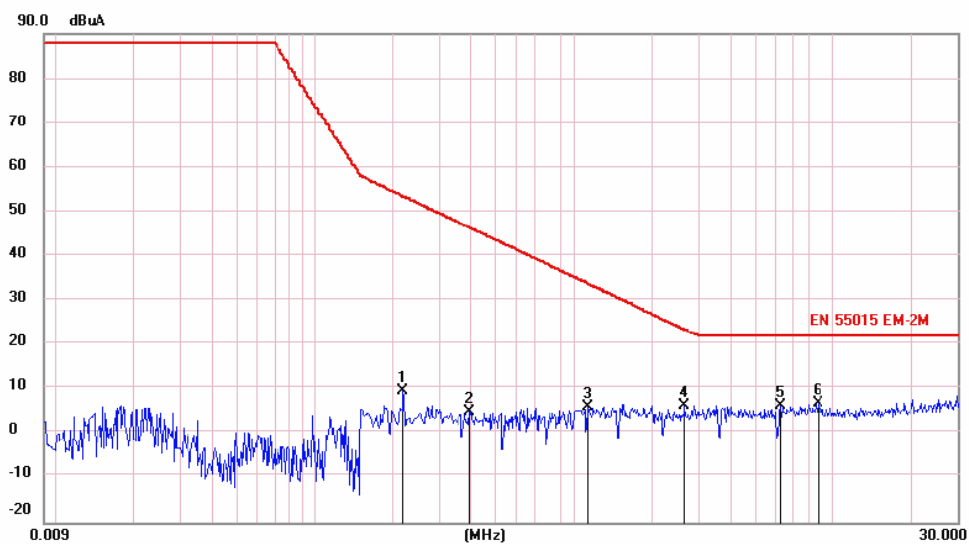


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature:		

Conducted Emission Measurement

File :EM Data :#18 Date: 2018-12-12 Time: 11:15:56



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.2179	9.54	0.08	9.62	53.51	-43.89	peak	
2		0.3975	4.88	0.08	4.96	46.29	-41.33	peak	
3		1.1229	5.89	0.10	5.99	33.81	-27.82	peak	
4		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
5		6.2602	6.00	0.18	6.18	22.00	-15.82	peak	
6	*	8.7004	6.49	0.19	6.68	22.00	-15.32	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase:

Z

Temperature:

24

Limit: EN 55015 EM-2M

Power:

AC 230V/50Hz

Humidity:

45 %

EUT: Panel Light

M/N: BLIT-60120-40D-65

Mode: Lighting

Note: I789

Engineer Signature:

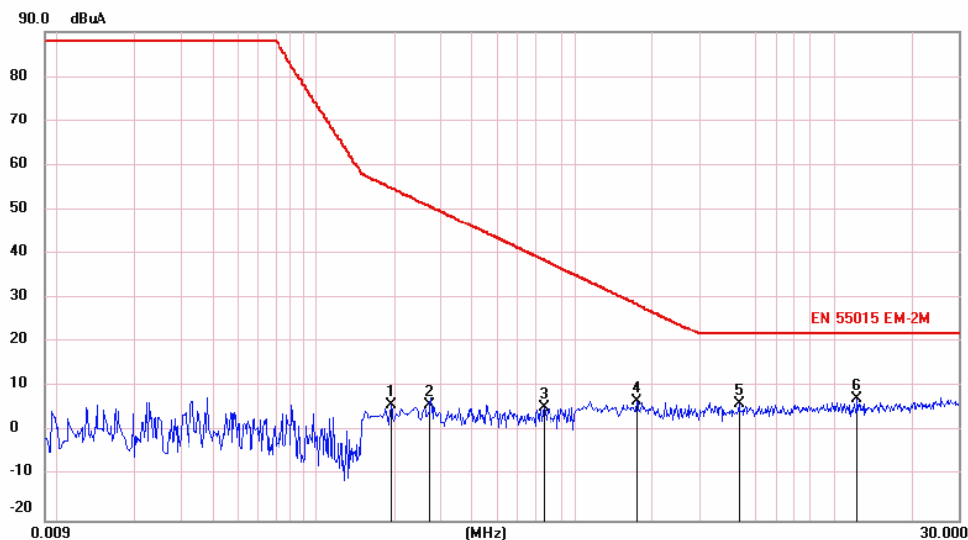
Conducted Emission Measurement

File :EM

Data :#19

Date: 2018-12-12

Time: 11:19:28



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.2736	6.00	0.08	6.08	50.78	-44.70	peak	
3		0.7570	5.43	0.09	5.52	38.55	-33.03	peak	
4		1.7200	6.83	0.10	6.93	28.68	-21.75	peak	
5		4.3003	6.05	0.15	6.20	22.00	-15.80	peak	
6	*	12.2804	7.07	0.22	7.29	22.00	-14.71	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: X

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-60120-40D-65

Mode: Lighting

Note: I789

Engineer Signature:

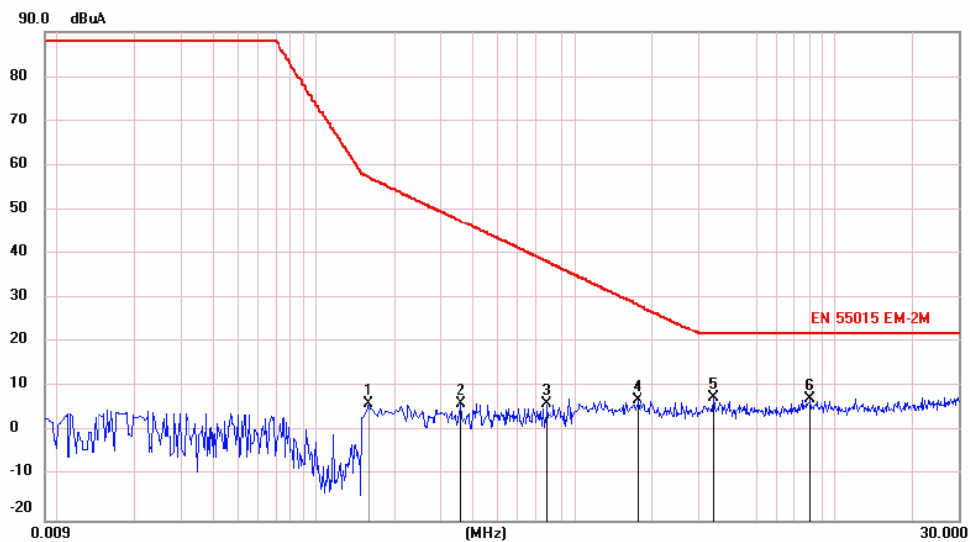
Conducted Emission Measurement

File :EM

Data :#20

Date: 2018-12-12

Time: 11:25:03



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1590	6.31	0.08	6.39	57.30	-50.91	peak	
2		0.3613	6.23	0.08	6.31	47.44	-41.13	peak	
3		0.7752	6.03	0.10	6.13	38.26	-32.13	peak	
4		1.7400	6.87	0.10	6.97	28.55	-21.58	peak	
5	*	3.4003	7.40	0.13	7.53	22.00	-14.47	peak	
6		8.0004	7.17	0.19	7.36	22.00	-14.64	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: Y

Temperature: 24

Limit: EN 55015 EM-2M

Power: AC 230V/50Hz

Humidity: 45 %

EUT: Panel Light

M/N: BLIT-60120-40D-65

Mode: Lighting

Note: I789

Engineer Signature:

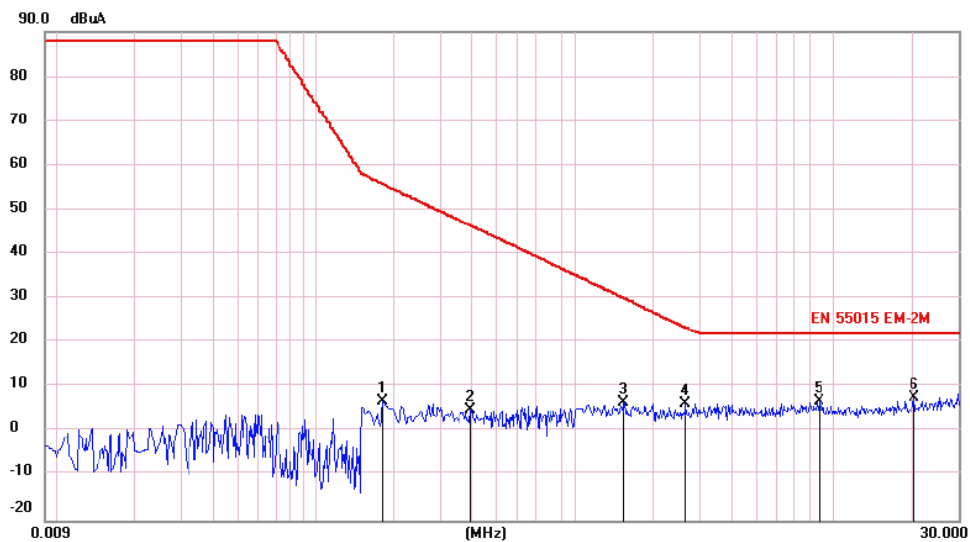
Conducted Emission Measurement

File :EM

Data :#21

Date: 2018-12-12

Time: 11:29:01



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2		0.3975	4.88	0.08	4.96	46.29	-41.33	peak	
3		1.5403	6.35	0.10	6.45	30.01	-23.56	peak	
4		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
5		8.7004	6.49	0.19	6.68	22.00	-15.32	peak	
6	*	20.3002	7.27	0.43	7.70	22.00	-14.30	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #15 Date: 2018/12/13 Time: 21:35:19



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		39.7301	21.23	14.23	35.46	40.00	-4.54	QP		
2		60.8305	19.92	12.61	32.53	40.00	-7.47	peak		
3		122.4958	20.26	12.76	33.02	40.00	-6.98	peak		
4		145.9222	20.87	14.25	35.12	40.00	-4.88	peak		
5	*	34.5125	23.13	13.49	36.62	40.00	-3.38	QP		
6		34.2542	23.04	13.47	36.51	40.00	-3.49	QP		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: I789		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #16 Date: 2018/12/13 Time: 21:46:40



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	80.1902	26.24	9.45	35.69	40.00	-4.31	QP		
2		89.5615	25.91	9.78	35.69	40.00	-4.31	QP		
3		99.3393	24.42	10.56	34.98	40.00	-5.02	QP		
4		121.9330	19.68	12.73	32.41	40.00	-7.59	QP		
5		152.0972	18.05	14.56	32.61	40.00	-7.39	peak		
6		84.0427	25.36	9.61	34.97	40.00	-5.03	QP		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电

Data: #9

Date: 2018/12/6

Time: 20:09:02



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.0000	18.77	13.25	32.02	40.00	-7.98	QP	100	0
2		79.8218	23.14	9.45	32.59	40.00	-7.41	QP	100	30
3		100.0279	19.45	10.61	30.06	40.00	-9.94	peak		
4	*	137.7594	19.37	13.70	33.07	40.00	-6.93	peak		
5		244.9747	19.36	12.02	31.38	47.00	-15.62	peak		
6		271.0948	16.87	12.80	29.67	47.00	-17.33	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement = Reading Level + Correct Factor; Correct Factor = Antenna Factor + Cable Loss.

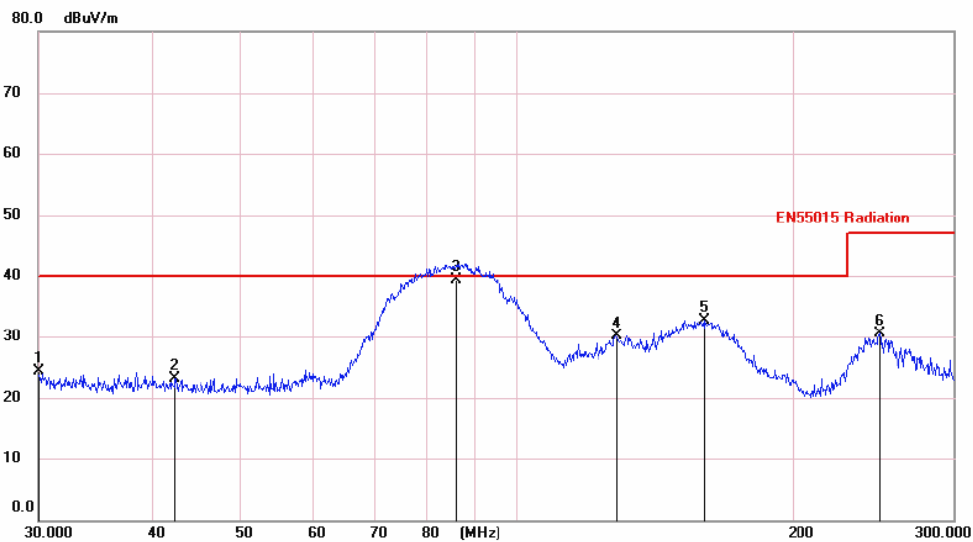


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-40D-65		
Mode: Lighting		
Note: LF-GIF040YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement

File: 拓博光电 Data: #10 Date: 2018/12/6 Time: 20:27:21



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.0000	11.05	13.25	24.30	40.00	-15.70	peak		
2		42.2787	9.05	14.07	23.12	40.00	-16.88	peak		
3	*	86.0076	29.66	9.70	39.36	40.00	-0.64	QP	200	0
4		128.5646	17.02	13.14	30.16	40.00	-9.84	peak		
5		160.7390	18.21	14.52	32.73	40.00	-7.27	peak		
6		248.9552	18.38	12.05	30.43	47.00	-16.57	peak		

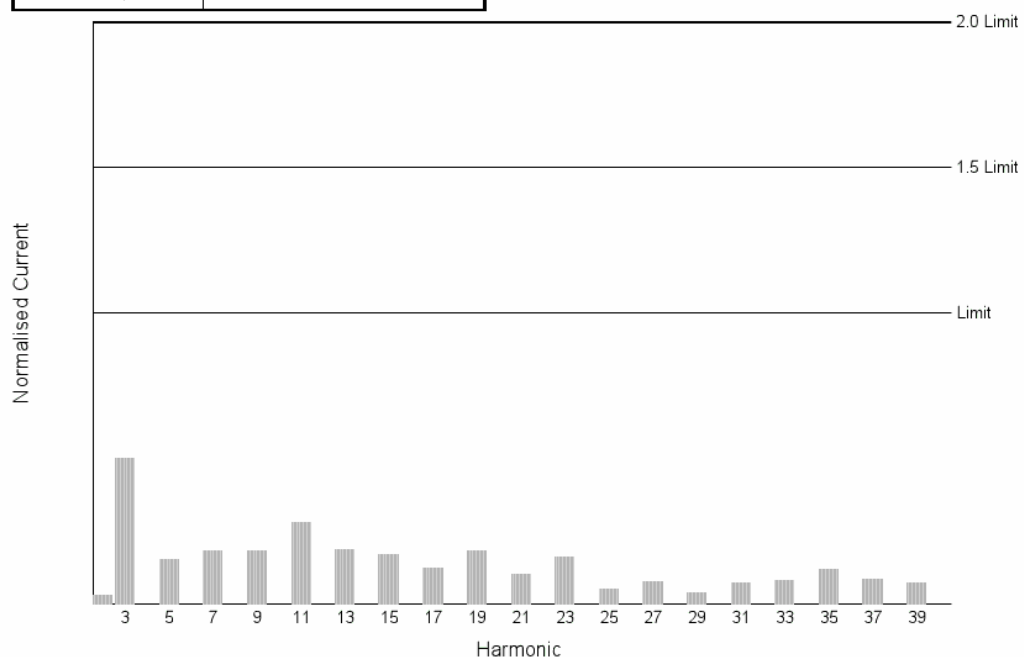
Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Product: BLIT-60120-40D-65 Serial no: AGT-I789A Description: lighting Test Date: 2018 Dec 13 11:50 Result Name: AGT-I789A-2-H		2018 Dec 13 11:54 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.1788
Specified Power:	0.0000	40.4827
Fundamental Current:	0.6180	0.1644
Power Factor:	0.2600	0.2068
Average Input Current:		0.8524
Maximum POHC:		0.0052
POHC Limit:		0.0586
Maximum THC:		0.0292
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA		
Product:	BLIT-60120-40D-65	2018 Dec 13 11:54
Serial no:	AGT-I789A	Page 2 of 3
Description:	lighting	
Result Name:	AGT-I789A-2-H	
Voltech IEC61000-3 Windows Software 1.24.12		Test Date: 2018 Dec 13 11:50
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)	
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source:	Mains / Manual Source	
Overall Result:	Notes:	
PASS		

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-60120-40D-65	2018 Dec 13 11:54
Serial no: AGT-I789A	Page 3 of 3
Description: lighting	
Result Name: AGT-I789A-2-H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 13 11:50
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	12.35mA	18.53mA	0.299mA	N/A	0.341mA	N/A	N/A	3	48.20mA	72.30mA	24.08mA	✓✓	24.10mA	✓	Pass
4	None	None	0.194mA		0.264mA		N/A	5	61.79mA	92.69mA	9.360mA	✓✓	9.387mA	✓	Pass
6	None	None	0.203mA		0.235mA		N/A	7	43.25mA	64.88mA	7.764mA	✓✓	7.786mA	✓	Pass
8	None	None	0.162mA		0.232mA		N/A	9	30.89mA	46.34mA	5.532mA	✓✓	5.553mA	✓	Pass
10	None	None	0.169mA		0.191mA		N/A	11	18.53mA	27.80mA	5.145mA	✓✓	5.177mA	✓	Pass
12	None	None	0.204mA		0.255mA		N/A	13	18.53mA	27.80mA	3.407mA	N/A	3.432mA	N/A	N/A
14	None	None	0.148mA		0.176mA		N/A	15	18.53mA	27.80mA	3.118mA	N/A	3.157mA	N/A	N/A
16	None	None	0.148mA		0.189mA		N/A	17	18.53mA	27.80mA	2.184mA	N/A	2.240mA	N/A	N/A
18	None	None	0.154mA		0.180mA		N/A	19	18.53mA	27.80mA	3.273mA	N/A	3.332mA	N/A	N/A
20	None	None	0.147mA		0.164mA		N/A	21	18.53mA	27.80mA	1.816mA	N/A	1.888mA	N/A	N/A
22	None	None	0.171mA		0.200mA		N/A	23	18.53mA	27.80mA	2.915mA	N/A	2.958mA	N/A	N/A
24	None	None	0.182mA		0.200mA		N/A	25	18.53mA	27.80mA	0.855mA	N/A	0.905mA	N/A	N/A
26	None	None	0.155mA		0.194mA		N/A	27	18.53mA	27.80mA	1.403mA	N/A	1.432mA	N/A	N/A
28	None	None	0.152mA		0.166mA		N/A	29	18.53mA	27.80mA	0.698mA	N/A	0.721mA	N/A	N/A
30	None	None	0.135mA		0.160mA		N/A	31	18.53mA	27.80mA	1.300mA	N/A	1.343mA	N/A	N/A
32	None	None	0.150mA		0.167mA		N/A	33	18.53mA	27.80mA	1.451mA	N/A	1.475mA	N/A	N/A
34	None	None	0.126mA		0.141mA		N/A	35	18.53mA	27.80mA	2.158mA	N/A	2.183mA	N/A	N/A
36	None	None	0.173mA		0.195mA		N/A	37	18.53mA	27.80mA	1.496mA	N/A	1.523mA	N/A	N/A
38	None	None	0.143mA		0.160mA		N/A	39	18.53mA	27.80mA	1.283mA	N/A	1.342mA	N/A	N/A
40	None	None	0.152mA		0.175mA		N/A								

<L1 : Reading is below limit 1.

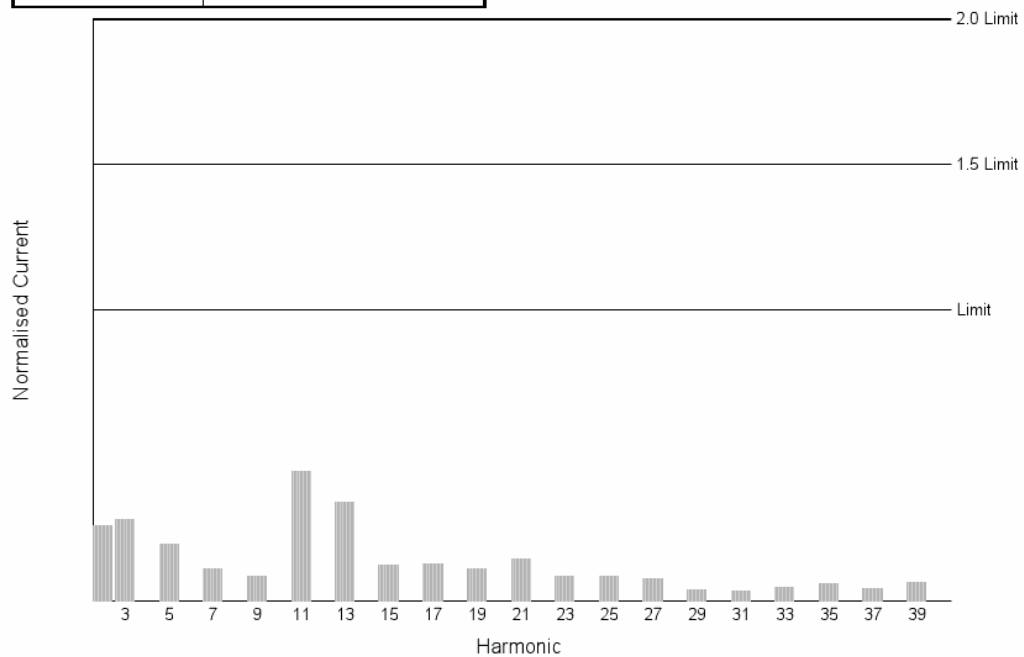
<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.

Product: BLIT-60120-40D-65 Serial no: LF-GIF040YA(H) Description: Lighting Test Date: 2018 Dec 6 14:53 Result Name: LF-GIF040YA(H)-40D-H		2018 Dec 6 15:00 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.7673
Specified Power:	0.0000	37.8071
Fundamental Current:	0.1690	0.1695
Power Factor:	0.9680	0.9993
Average Input Current:		0.1645
Maximum POHC:		0.0012
POHC Limit:		0.0160
Maximum THC:		0.0145
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA	
Product:	BLIT-60120-40D-65
Serial no:	LF-GIF040YA(H)
Description:	Lighting
Result Name:	LF-GIF040YA(H)-40D-H
Voltech IEC61000-3 Windows Software 1.24.12	
Test Date: 2018 Dec 6 14:53	
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None
	3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None
	5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None
AC Source:	Mains / Manual Source
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-60120-40D-65	2018 Dec 6 15:00
Serial no: LF-GIF040YA(H)	Page 3 of 3
Description: Lighting	
Result Name: LF-GIF040YA(H)-40D-H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 6 14:53
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN: None Adjusted Date: None	
3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None	
5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	3.380mA	5.070mA	0.834mA	N/A	0.877mA	N/A	N/A	3	49.07mA	73.61mA	13.57mA	✓✓	13.61mA	✓	Pass
4	None	None	0.354mA		0.376mA		N/A	5	16.90mA	25.34mA	3.272mA	N/A	3.292mA	N/A	N/A
6	None	None	0.241mA		0.263mA		N/A	7	11.82mA	17.74mA	1.276mA	N/A	1.297mA	N/A	N/A
8	None	None	0.211mA		0.234mA		N/A	9	8.460mA	12.67mA	0.662mA	N/A	0.688mA	N/A	N/A
10	None	None	0.126mA		0.136mA		N/A	11	5.070mA	7.605mA	2.227mA	N/A	2.244mA	N/A	N/A
12	None	None	0.229mA		0.248mA		N/A	13	5.070mA	7.605mA	1.702mA	N/A	1.715mA	N/A	N/A
14	None	None	0.092mA		0.103mA		N/A	15	5.070mA	7.605mA	0.602mA	N/A	0.616mA	N/A	N/A
16	None	None	0.136mA		0.150mA		N/A	17	5.070mA	7.605mA	0.613mA	N/A	0.632mA	N/A	N/A
18	None	None	0.096mA		0.107mA		N/A	19	5.070mA	7.605mA	0.538mA	N/A	0.554mA	N/A	N/A
20	None	None	0.119mA		0.131mA		N/A	21	5.070mA	7.605mA	0.718mA	N/A	0.731mA	N/A	N/A
22	None	None	0.122mA		0.135mA		N/A	23	5.070mA	7.605mA	0.418mA	N/A	0.431mA	N/A	N/A
24	None	None	0.138mA		0.152mA		N/A	25	5.070mA	7.605mA	0.404mA	N/A	0.419mA	N/A	N/A
26	None	None	0.099mA		0.108mA		N/A	27	5.070mA	7.605mA	0.377mA	N/A	0.390mA	N/A	N/A
28	None	None	0.088mA		0.097mA		N/A	29	5.070mA	7.605mA	0.177mA	N/A	0.191mA	N/A	N/A
30	None	None	0.106mA		0.116mA		N/A	31	5.070mA	7.605mA	0.158mA	N/A	0.169mA	N/A	N/A
32	None	None	0.083mA		0.094mA		N/A	33	5.070mA	7.605mA	0.226mA	N/A	0.240mA	N/A	N/A
34	None	None	0.097mA		0.109mA		N/A	35	5.070mA	7.605mA	0.283mA	N/A	0.294mA	N/A	N/A
36	None	None	0.114mA		0.124mA		N/A	37	5.070mA	7.605mA	0.189mA	N/A	0.204mA	N/A	N/A
38	None	None	0.083mA		0.092mA		N/A	39	5.070mA	7.605mA	0.310mA	N/A	0.323mA	N/A	N/A
40	None	None	0.083mA		0.092mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.

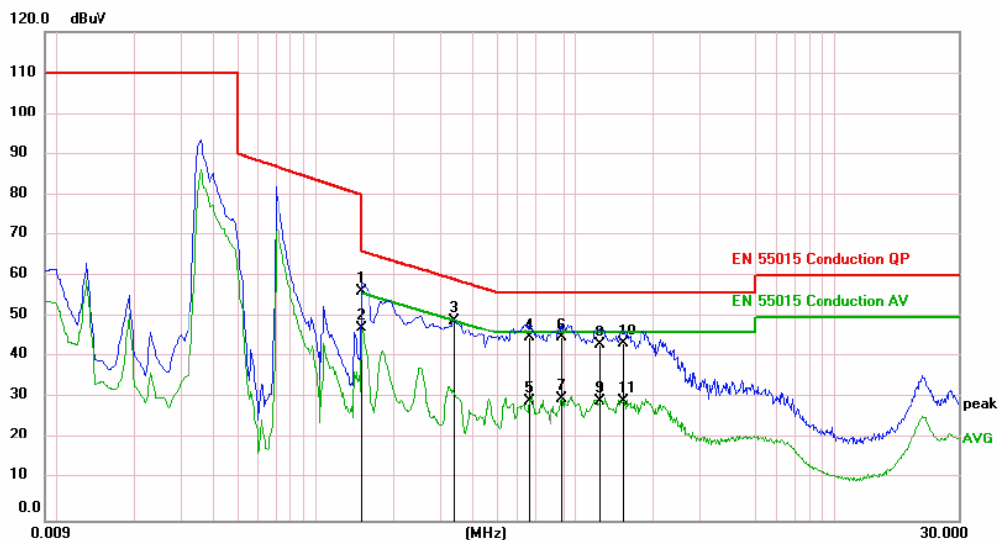


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#3 Date: 2018-12-6 Time: 22:04:01



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	46.38	9.73	56.11	66.00	-9.89	QP	
2	*	0.1500	37.56	9.73	47.29	56.00	-8.71	AVG	
3		0.3390	39.33	9.77	49.10	59.23	-10.13	peak	
4		0.6675	35.18	9.80	44.98	56.00	-11.02	QP	
5		0.6675	19.45	9.80	29.25	46.00	-16.75	AVG	
6		0.8880	35.06	9.82	44.88	56.00	-11.12	QP	
7		0.8880	19.93	9.82	29.75	46.00	-16.25	AVG	
8		1.2405	33.33	9.85	43.18	56.00	-12.82	QP	
9		1.2405	19.31	9.85	29.16	46.00	-16.84	AVG	
10		1.5205	33.33	9.88	43.21	56.00	-12.79	QP	
11		1.5205	19.52	9.88	29.40	46.00	-16.60	AVG	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

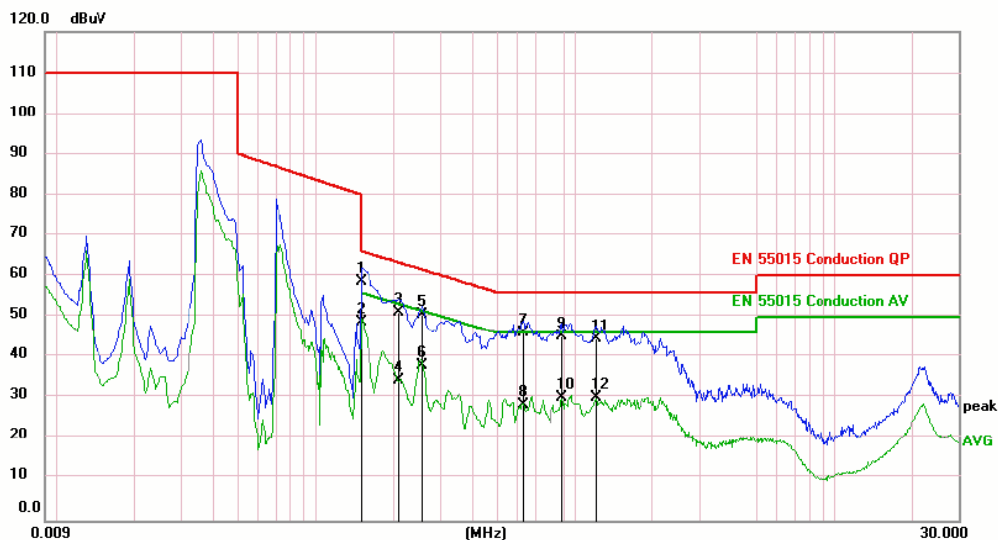


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: L1	Temperature: 24.9
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 47 %
EUT: Panel Light		
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :12 Data :#4 Date: 2018-12-6 Time: 22:07:06



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	48.97	9.73	58.70	66.00	-7.30	QP	
2		0.1500	38.92	9.73	48.65	56.00	-7.35	AVG	
3		0.2085	41.40	9.74	51.14	63.26	-12.12	QP	
4		0.2085	24.74	9.74	34.48	53.26	-18.78	AVG	
5		0.2580	40.85	9.76	50.61	61.50	-10.89	QP	
6		0.2580	28.29	9.76	38.05	51.50	-13.45	AVG	
7		0.6270	36.15	9.79	45.94	56.00	-10.06	QP	
8		0.6270	18.66	9.79	28.45	46.00	-17.55	AVG	
9		0.8925	35.28	9.82	45.10	56.00	-10.90	QP	
10		0.8925	20.24	9.82	30.06	46.00	-15.94	AVG	
11		1.2005	34.80	9.85	44.65	56.00	-11.35	QP	
12		1.2005	20.38	9.85	30.23	46.00	-15.77	AVG	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

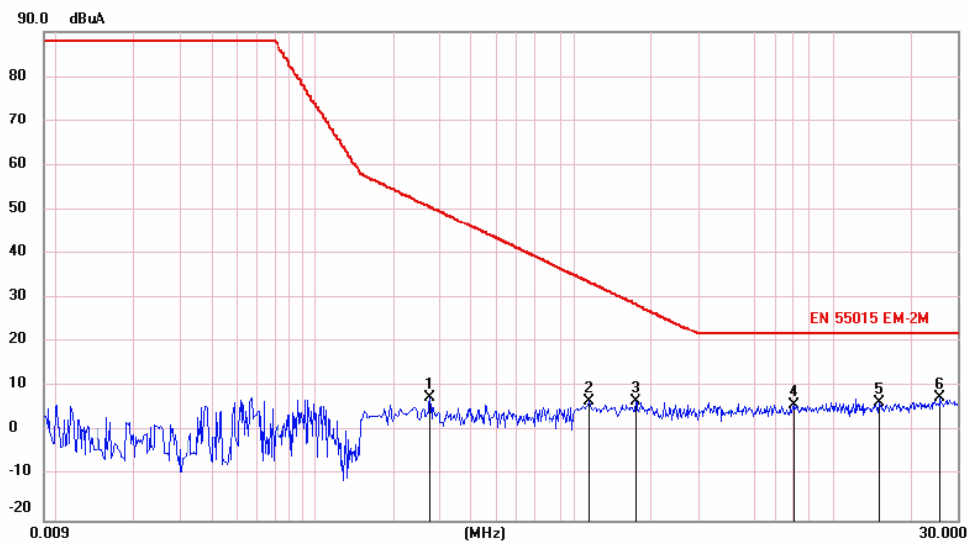


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Z	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#22 Date: 2018-12-12 Time: 21:32:04



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
2		1.1403	6.84	0.10	6.94	33.62	-26.68	peak	
3		1.7200	6.83	0.10	6.93	28.68	-21.75	peak	
4		7.0403	5.92	0.19	6.11	22.00	-15.89	peak	
5		15.0204	6.29	0.26	6.55	22.00	-15.45	peak	
6	*	25.8600	6.86	0.68	7.54	22.00	-14.46	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

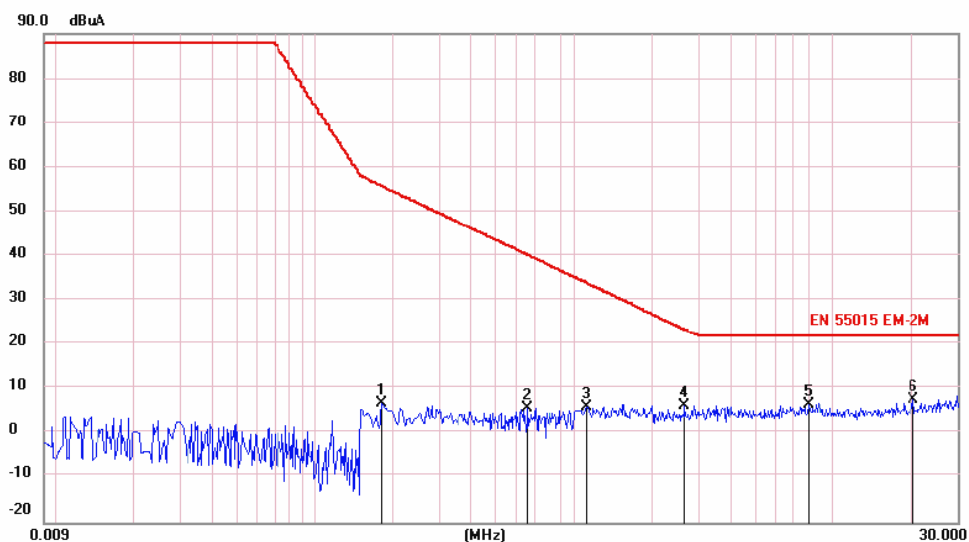


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: Y	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#23 Date: 2018-12-12 Time: 11:36:21



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.1814	6.64	0.08	6.72	55.72	-49.00	peak	
2		0.6582	5.65	0.08	5.73	40.23	-34.50	peak	
3		1.1204	6.00	0.10	6.10	33.84	-27.74	peak	
4		2.6604	6.14	0.12	6.26	23.44	-17.18	peak	
5		7.9804	6.26	0.19	6.45	22.00	-15.55	peak	
6	*	20.3002	7.27	0.43	7.70	22.00	-14.30	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

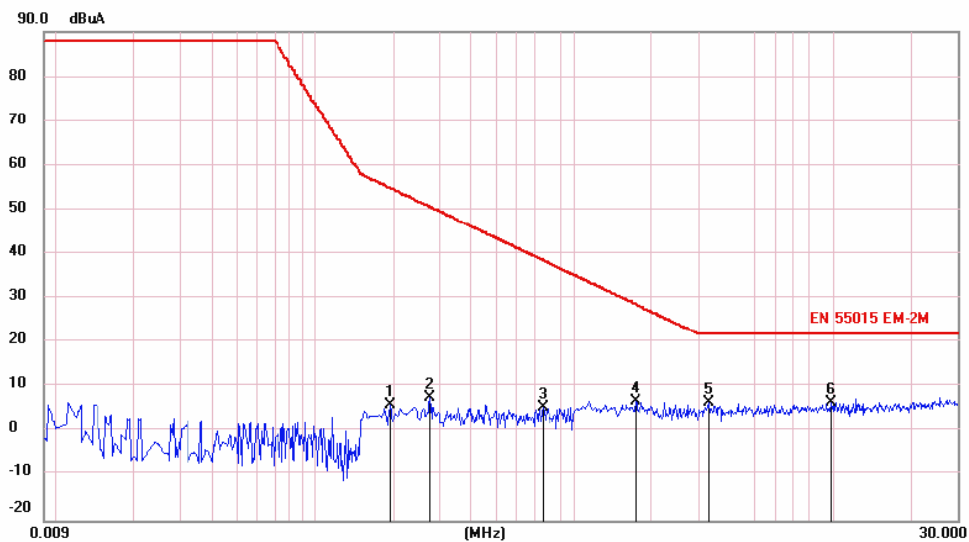


Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: X	Temperature: 24
Limit: EN 55015 EM-2M	Power: AC 230V/50Hz	Humidity: 45 %
EUT: Panel Light		
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Conducted Emission Measurement

File :EM Data :#24 Date: 2018-12-12 Time: 11:41:17



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.1949	5.83	0.08	5.91	54.85	-48.94	peak	
2		0.2760	7.60	0.08	7.68	50.67	-42.99	peak	
3		0.7570	5.43	0.09	5.52	38.55	-33.03	peak	
4		1.7200	6.83	0.10	6.93	28.68	-21.75	peak	
5	*	3.3003	6.49	0.13	6.62	22.00	-15.38	peak	
6		9.8201	6.44	0.18	6.62	22.00	-15.38	peak	

*:Maximum data x:Over limit l:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Horizontal	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

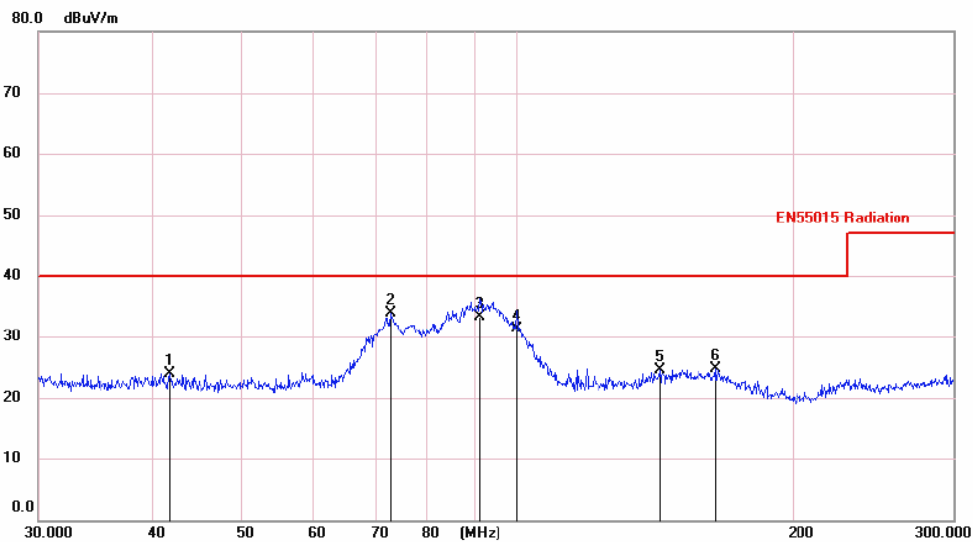
Radiated Emission Measurement

File: 拓博光电

Data: #7

Date: 2018/12/6

Time: 20:02:16



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.6986	9.77	14.12	23.89	40.00	-16.11	peak		
2	*	72.6309	23.31	10.52	33.83	40.00	-6.17	peak		
3		91.0167	23.36	9.90	33.26	40.00	-6.74	QP		
4		100.0279	20.65	10.61	31.26	40.00	-8.74	QP		
5		143.2588	10.51	14.06	24.57	40.00	-15.43	peak		
6		164.8623	10.55	14.18	24.73	40.00	-15.27	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

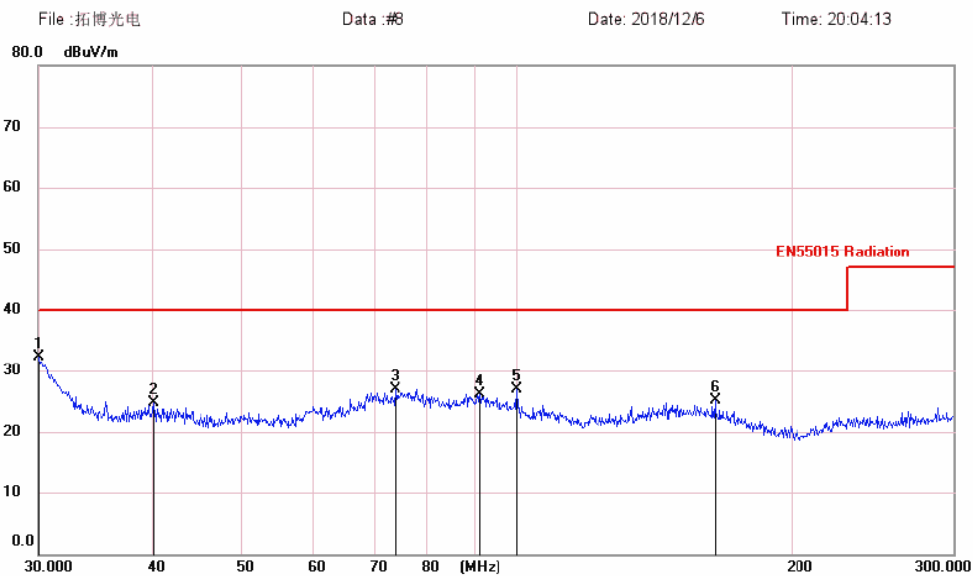
2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB:	Polarization: Vertical	Temperature: 23.9
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 46 %
EUT: Panel Light	Distance: 3m	
M/N: BLIT-60120-60D-65		
Mode: Lighting		
Note: LF-GIF060YA(H)		
Engineer Signature: Anne		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0000	19.12	13.25	32.37	40.00	-7.63	peak		
2		40.0979	10.47	14.23	24.70	40.00	-15.30	peak		
3		73.6413	16.54	10.44	26.98	40.00	-13.02	peak		
4		91.0167	16.25	9.90	26.15	40.00	-13.85	peak		
5		100.0279	16.30	10.61	26.91	40.00	-13.09	peak		
6		164.8623	10.91	14.18	25.09	40.00	-14.91	peak		

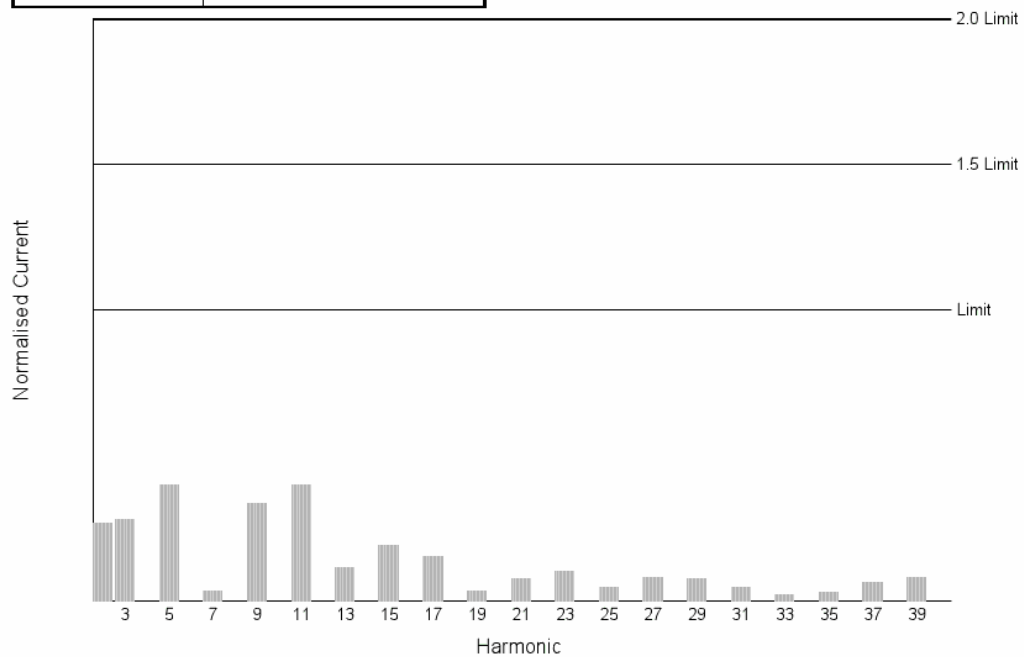
Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Product: BLIT-60120-60D-65 Serial no: LF-GIF060YA(H) Description: Lighting Test Date: 2018 Dec 6 15:42 Result Name: LF-GIF060YA(H)-H		2018 Dec 6 15:45 Page 1 of 3
Type of Test: EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002 Limits: Class C > 25W Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6 Channel(s): 1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits: PASS	Notes:	
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	229.7572
Specified Power:	0.0000	58.5093
Fundamental Current:	0.2720	0.2609
Power Factor:	0.9350	0.9838
Average Input Current:		0.2587
Maximum POHC:		0.0017
POHC Limit:		0.0258
Maximum THC:		0.0247
Minimum Power:	75	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

ALPHA		
Product:	BLIT-60120-60D-65	2018 Dec 6 15:45
Serial no:	LF-GIF060YA(H)	Page 2 of 3
Description:	Lighting	
Result Name:	LF-GIF060YA(H)-H	
Voltech IEC61000-3 Windows Software 1.24.12		Test Date: 2018 Dec 6 15:42
Type of Test:	Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)	
Power Analyzer:	Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source:	Mains / Manual Source	
Overall Result:	PASS	

Class	Class C > 25W
Class Multiplier	1



ALPHA	
Product: BLIT-60120-60D-65	2018 Dec 6 15:46
Serial no: LF-GIF060YA(H)	Page 3 of 3
Description: Lighting	
Result Name: LF-GIF060YA(H)-H	
Voltech IEC61000-3 Windows Software 1.24.12	Test Date: 2018 Dec 6 15:42
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer: Voltech PM6000 SN: 200006700495 Firmware version: v1.22.07RC6	
Channel(s):	
1. SN: 090015501951, 28 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
Shunt(s):	
1. SN: 091024301771, 4 Adjusted Date: 16 APR 2013. 2. SN:None Adjusted Date:None	
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class C > 25W
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	5.440mA	8.160mA	1.408mA	N/A	1.453mA	N/A	N/A	3	76.29mA	114.4mA	21.25mA	✓✓	21.31mA	✓	Pass
4	None	None	1.080mA		1.119mA		N/A	5	27.20mA	40.80mA	10.73mA	✓✓	10.77mA	✓	Pass
6	None	None	0.495mA		0.548mA		N/A	7	19.03mA	28.55mA	0.570mA	N/A	0.615mA	N/A	N/A
8	None	None	0.314mA		0.342mA		N/A	9	13.80mA	20.40mA	4.542mA	N/A	4.567mA	N/A	N/A
10	None	None	0.398mA		0.448mA		N/A	11	8.160mA	12.24mA	3.184mA	N/A	3.230mA	N/A	N/A
12	None	None	0.298mA		0.323mA		N/A	13	8.160mA	12.24mA	0.911mA	N/A	0.929mA	N/A	N/A
14	None	None	0.250mA		0.282mA		N/A	15	8.160mA	12.24mA	1.526mA	N/A	1.549mA	N/A	N/A
16	None	None	0.324mA		0.351mA		N/A	17	8.160mA	12.24mA	1.202mA	N/A	1.241mA	N/A	N/A
18	None	None	0.188mA		0.204mA		N/A	19	8.160mA	12.24mA	0.236mA	N/A	0.256mA	N/A	N/A
20	None	None	0.164mA		0.180mA		N/A	21	8.160mA	12.24mA	0.594mA	N/A	0.621mA	N/A	N/A
22	None	None	0.226mA		0.247mA		N/A	23	8.160mA	12.24mA	0.781mA	N/A	0.806mA	N/A	N/A
24	None	None	0.208mA		0.229mA		N/A	25	8.160mA	12.24mA	0.347mA	N/A	0.372mA	N/A	N/A
26	None	None	0.143mA		0.157mA		N/A	27	8.160mA	12.24mA	0.632mA	N/A	0.648mA	N/A	N/A
28	None	None	0.160mA		0.172mA		N/A	29	8.160mA	12.24mA	0.588mA	N/A	0.602mA	N/A	N/A
30	None	None	0.178mA		0.192mA		N/A	31	8.160mA	12.24mA	0.364mA	N/A	0.387mA	N/A	N/A
32	None	None	0.101mA		0.111mA		N/A	33	8.160mA	12.24mA	0.161mA	N/A	0.176mA	N/A	N/A
34	None	None	0.117mA		0.129mA		N/A	35	8.160mA	12.24mA	0.208mA	N/A	0.225mA	N/A	N/A
36	None	None	0.144mA		0.161mA		N/A	37	8.160mA	12.24mA	0.482mA	N/A	0.501mA	N/A	N/A
38	None	None	0.104mA		0.115mA		N/A	39	8.160mA	12.24mA	0.626mA	N/A	0.639mA	N/A	N/A
40	None	None	0.134mA		0.146mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.8% of rated current or 5mA, whichever is greater, are disregarded.

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Electrostatic Discharge Test Results

Applicant	: LED PANEL LIGHTING CO., LTD	Test Date	: December 19, 2018
EUT	: LED Panel Light	Temperature	: 23.5 °C
M/N	: BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65	Humidity	: 54%
Test Voltage	: AC 230V/50Hz	Test Mode	: Lighting
Test Engineer	: Anne Qiu	Pressure	: 101.3KPa
Required Performance	: B	Actual Performance	: A

Air Discharge: $\pm 2\text{kV}$ $\pm 4\text{kV}$ $\pm 8\text{kV}$ # For Air Discharge each point positive 25 times and negative 25 times discharge.

Contact Discharge: $\pm 2\text{kV}$ $\pm 4\text{kV}$ # For Contact Discharge each point positive 25 times and negative 25 times discharge

For the time interval between successive single discharges an initial value of one second.

Discharge Voltage (kV)	Type of discharge	Dischargeable Points	Performance		Result (Pass/Fail)
			Required	Observation	
± 2	Contact	N/A	B	N/A	N/A
± 4	Contact	N/A	B	N/A	N/A
± 2	Air	1	B	A	Pass
± 4	Air	1	B	A	Pass
± 8	Air	1	B	A	Pass
± 2	HCP	3	B	A	Pass
± 2	VCP	2	B	A	Pass
± 4	HCP	3	B	A	Pass
± 4	VCP	2	B	A	Pass

Discharge Points Description

<u>1</u>	Gap	<u>5</u>	
<u>2</u>	VCP	<u>6</u>	
<u>3</u>	HCP	<u>7</u>	
<u>4</u>		<u>8</u>	

Remark: 1. Class A: No obvious change during and after the test process.

2. EUT does not contain metal contact points, not need to contact discharge measurement

Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

RF Field Strength Susceptibility Test Results

Applicant	:	LED PANEL LIGHTING CO., LTD	Test Date	:	December 19, 2018
EUT	:	Panel Light	Temperature	:	23.5 °C
M/N	:	BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65	Humidity	:	56%
Test Voltage	:	AC 230V/50Hz	Pressure	:	101.3KPa
Test Engineer	:	Anne Qiu	Test Mode	:	Lighting
Frequency Range	:	80 MHz -1000MHz	Field Strength	:	3V/m
Required Performance	:	A	Actual Performance	:	A
Modulation: ☒ AM ☐ Pulse ☐ none 1 kHz 80%					
Frequency Range :80 MHz -1000MHz					
Steps	1%				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: 1 Class A: No obvious change in the test before and after the process.					

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Electrical Fast Transient/Burst Test Results

Applicant	:	LED PANEL LIGHTING CO., LTD	Test Date	:	December 19, 2018
EUT	:	LED Panel Light	Temperature	:	23.5℃
M/N	:	BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65	Humidity	:	54%
Test Voltage	:	AC 230V/50Hz	Test Mode	:	Lighting
Test Engineer	:	Anne Qiu	Pressure	:	101.3Kpa
Required Performance	:	B	Actual Performance	:	A
Repetition Frequency : <u>5 kHz</u> Burst Duration : <u>15ms</u> Burst Period: <u>300ms</u>					
Inject Time(s): <u>120s</u> Inject Method: <u>Direct</u>					
Inject Line: ☒ AC Mains ☐ DC Output ☐ Signal					
Line	Test Voltage	Performance			Result (Pass/Fail)
		Required	Observation(+)	Observation(-)	
L	1.0kV	B	A	A	Pass
N	1.0kV	B	A	A	Pass
L N	1.0kV	B	A	A	Pass
L-PE	1.0kV	/	/	/	/
N-PE	1.0kV	/	/	/	/
DC Line	0.5kV	/	/	/	/
Remark: Class A: No obvious change during and after the test process.					

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Surge Immunity Test Results

Applicant	:	LED PANEL LIGHTING CO., LTD	Test Date	:	December 19, 2018						
EUT	:	LED Panel Light	Temperature	:	23.5°C						
M/N	:	BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65	Humidity	:	54%						
Power Supply	:	AC 230V/50Hz	Test Mode	:	Lighting						
Test Engineer	:	Anne Qiu	Pressure	:	101.3KPa						
Required Performance	:	C	Actual Performance	:	B						
No. of phase: 5 Times/Phase Angle Interval: 60 Seconds											
Line : ☒ AC Mains ☐ DC Supply ☐ Signal											
Location	Volt	500V			1kV			2kV			Result (Pass/Fail)
	Phase	Performance			Performance			Performance			
		Required	+	-	Required	+	-	Required	+	-	
L-N	0°	/	/	/	/	/	/	/	/	/	/
	90°	C	B	/	C	B	/	/	/	/	Pass
	180°	/	/	/	/	/	/	/	/	/	/
	270°	C	/	B	C	/	B	/	/	/	Pass
L-PE	0°	/	/	/	/	/	/	/	/	/	/
	90°	/	/	/	/	/	/	/	/	/	/
	180°	/	/	/	/	/	/	/	/	/	/
	270°	/	/	/	/	/	/	/	/	/	/
N-PE	0°	/	/	/	/	/	/	/	/	/	/
	90°	/	/	/	/	/	/	/	/	/	/
	180°	/	/	/	/	/	/	/	/	/	/
	270°	/	/	/	/	/	/	/	/	/	/
Signal Line	/	/	/	/	/	/	/	/	/	/	/
Remark: Class B: During testing, the lightness would flicker, and it could restore normal automatically after testing.											

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Injected Currents Susceptibility Test Results

Applicant	LED PANEL LIGHTING CO., LTD		Test Date	December 19, 2018	
EUT	LED Panel Light		Temperature	23.5°C	
M/N	BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65		Humidity	54%	
Power Supply	AC 230V/50Hz		Test Mode	Lighting	
Test Engineer	Anne Qiu		Pressure	101.3KPa	
Required Performance	A		Actual Performance	A	
Frequency Range (MHz)	Injected Position	Voltage Level (e.m.f.)	Required	Observation	Result (Pass / Fail)
0.15 ~ 80	AC Mains	3V	A	A	PASS
0.15 ~ 80	DC Output	/	/	/	/
Step : <u> 1 </u> % Dwell Time : <u> 1 </u> Sec					
DIRECT CDN Type : ☒ M2 ☐ M3 ☐ EM Clamp: DC Line					
Remark: Class A: No obvious change during and after the test process.					

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Voltage Dips and Interruptions Test Results

Applicant	:	LED PANEL LIGHTING CO., LTD			Test Date	:	December 19, 2018	
EUT	:	LED Panel Light			Temperature	:	23.5°C	
M/N	:	BLIT-6060-20D-65, BLIT-6060-25D-65, BLIT-6060-35D-65, BLIT-6060-45D-65, BLIT-30120-30D-65, BLIT-60120-40D-65, BLIT-60120-60D-65			Humidity	:	54%	
Power Supply	:	AC 230V/50Hz			Test Mode	:	Lighting	
Test Engineer	:	Anne Qiu			Pressure	:	101.3KPa	
Test Level		Voltage Dips & Short Interruptions % U _T	Duration (in period)	Phase Angle	Required	Observation	Result (Pass / Fail)	
0		100	0.5P	0° -360°	B	A	PASS	
Remark: Class A: No obvious change in the test before and after the process.								
70		30	10P	0° -360°	C	A	PASS	
Remark: Class A: No obvious change in the test before and after the process.								

Note: U_T is the rated voltage for the equipment.

Measurement Uncertainties

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.71 dB ± 2.71 dB	± 3.8 dB ± 3.4 dB
Power disturbance	Level accuracy (30MHz to 300MHz)	± 3.17 dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 1.86 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.87 dB (Vertical) ± 3.89 dB (Horizontal)	± 6.3 dB
Radiated Emission	Level accuracy (1-18GHz)	± 4.26 dB (Vertical) ± 4.27 dB (Horizontal)	N/A
Mains Harmonic	Voltage	$\pm 6\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 1.8\%$	N/A

As U_{lab} in all applicable tests listed above are less than U_{cispr} according to CISPR 16-4-2:2011,

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.