Test Report issued under the responsibility of:



Report Number...... AOC250522003S

Date of issue.....: 2025-06-18

Total number of pages...... 21 pages

Name of Testing Laboratory Shenzhen AOCE Electronic Technology Service Co., Ltd

preparing the Report...... Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial

for general lighting services by voltage > 50V Safety specifications

Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Applicant's name.....: AVIASENZE LTD

Address...... 250A KENNINGTON LN, LONDON, SE11 5RD, UK

Test specification:

Standard.....: IEC 62560:2011+A1:2015

Test procedure.....: Typeing test

Non-standard test method.....: N/A

Test Report Form No.....: IEC62560C

Test Report Form(s) Originator.....: DEKRA Certification B.V.

Master TRF.....: Dated 2018-12-21

Copyright © 2018 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Test	item description::	MONIT	TORING SMART BULB F	OR POULTRY FARM
Trade Mark: N/A				
Manufacturer: OLAM 7		TECH LTD		
				L CITY, YAN TAN DISTRICT,
			ANG, GANGDONG, CHII	NA
	el/Type reference:	PL-01		
Ratii	ngs:	100-24	10 V~, 50/60 Hz, 18 W	
Resp	oonsible Testing Laboratory (as a	pplicab	ole), testing procedure a	nd testing location(s):
	Testing Laboratory:		Shenzhen AOCE Electro	onic Technology Service Co., Ltd
Test	ing location/ address	:		o.12th Building of Xinhe Tongfuyu reet, Baoan District, Shenzhen,
Test	ed by (name, function, signature).	:	ZhiCong Xian Technical Engineer	ZhiCong Xian Robin. Lin
Аррі	roved by (name, function, signatu	re):	Robin Liu Technical Manager	Robin. Lin
	Testing procedure: CTF Stage 1:		N/A	
Toot	ing location/ address		TW/A	
	ed by (name, function, signature).			
Appi	roved by (name, function, signatu	re):		
	Testing procedure: CTF Stage 2:		N/A	
Test	ing location/ address	:		
Test	ed by (name + signature)	:		
	essed by (name, function, signatu			
	roved by (name, function, signatu			
	Testing procedure: CTF Stage 3:		N/A	
	Testing procedure: CTF Stage 4:		N/A	
Testing location/ address:				
Tested by (name, function, signature):				
Witnessed by (name, function, signature):				
Approved by (name, function, signature):				
Supe	ervised by (name, function, signat	ture) :		

	Page 3 of 21	Report No. A
List of Attachments (including a to	otal number of pages in each	attachment):
Attachment No.1: EUROPEAN GRO	OUP DIFFERENCES AND NAT	IONAL DIFFERENCES
Attachment No.2: Photo document.		

Summary of testing:

Tests performed (name of test and test clause):

- EN 62560:2012+A11:2019+A1:2015

Testing location:

Shenzhen AOCE Electronic Technology Service Co., Ltd

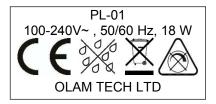
Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

None

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Copy of marking plate:



Remark:

- 1. The marking plate of others models are identical with models PL-01, except with different model number, and rated power.
- 2. The above mark is the minimum requirements required by the safety standard. For the final production, the additional marks which do not give rise to misunderstanding may be added.
- 3. The height of graphical symbols shall not be less than 5 mm
- 4. The height of letters shall not be less than 2 mm.

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Test item particulars:	
Classification of installation and use:	Direct insert into lampholder
Supply Connection:	Lamp cap
:	
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item:	2025-05-08
Date (s) of performance of tests	2025-05-08 to 2025-06-18
General remarks:	
The tested sample(s) and the sample information are p	•
"(See Enclosure #)" refers to additional information ap	
"(See appended table)" refers to a table appended to the	•
Note: National Conditions, if any, are in the Append	-
Throughout this report a ☐ comma / ☒ point is us	
The test report only allows to be revised only within the regulation was withdrawn or invalid.	e report defined retention period unless standard or
When determining for test conclusion, measurement u	incertainty of tests has been considered.
Note: clauses marked "" not included in CNAS scop	pe.
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a CB Test Certificate	☐ Yes
includes more than one factory location and a	Not applicable
declaration from the Manufacturer stating that the	
sample(s) submitted for evaluation is (are) representative of the products from each factory has	
been provided	
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Same as manufacturer

General product information and other remarks:

	IEC 62560		
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS	
4.1	The lamp shall be so designed and constructed that in normal use cause no danger to the user.	Р
4.2	Self-ballasted LED-Lamp are non-repairable.	N/A

5	MARKING		Р
5.1	Mandatory marking		Р
	- mark of origin		Р
	- rated supply voltage (V):	100-240 V	Р
	- rated wattage (W)	18 W	Р
	- rated frequency (Hz)	50/60 Hz	Р
5.2	Addition marking		N/A
	- rated current (A)		N/A
	- weight significantly higher		N/A
	- special conditions or restrictions		N/A
	Not suitable for dimming; symbol used		Р
	- not suitable for water contact		Р
5.3	Marking durable and legible		Р
	rubbing 15 s water, 15 s petroleum; marking legible		Р

6	INTERCHANGEABILITY	
6.1	Cap interchangeability in accordance with IEC 60061-1	
	Gauge in accordance with IEC 60061-3	Р
6.2	Bending moment and mass imparted by the lamp at the lampholder	
	Bending moment imparted by the lamp at the lampholder (Nm)	Р
	Mass not exceeding value table 2 or as specified in IEC 60061-1 (kg)	Р

7	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		Р
	Internal, basic insulated or live metal parts not accessible		Р

IEC 62560			
Clause	Clause Requirement + Test Result - Remark		Verdict
	Tested with a test finger with a force of 10 N		Р
	Compliance checked with appropriate gauges		Р
8	INSULATION RESISTANCE AND ELECTRIC STRENGTH		Р
8.2	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		Р
	\geq 4 M Ω for double or reinforced insulation		Р
8.3	Immediately after clause 8.2 electric strength test for 1 min		Р
	Double or reinforced insulation, 4U + 2000 V 2960 V		Р
	No flashover or breakdown		Р

9	MECHANICAL STRENGTH	Р
9.2.1	Torsion resistance of unused lamps	Р
	B15d or E14 Cap 1,15 Nm	N/A
	B22d, E26, E26d or E27 Cap3,0 Nm	Р
	E11 or E12 Cap	N/A
	E17 Cap1,5 Nm	N/A
	E39 or E40 Cap5,0 Nm	N/A
	GX53 Cap3,0 Nm	N/A
9.3	Compliance criteria	Р
	Clause 8 shall comply after the mechanical strength test.	Р
9.4	Axial strength of Edison caps	Р
	After full insertion into the gauge an axial force of Table 4 is applied to the central contact (N)	Р
	The insulation around the central contact shall remain intact	Р

10	CAP TEMPERATURE RISE		Р
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.		Р

		_
11	RESISTANCE TO HEAT	P
		-

	IEC 62560				
Clause	Requirement + Test	Result - Remark	Verdict		
	Parts of insulating material providing protection against electric shock, retaining live parts in position, ball-pressure test:	(see appended table)	Р		

12	RESISTANCE TO FLAME AND IGNITION		
	External parts of insulating material preventing electric shock glow-wire test 650 °C	(see appended table)	Р

13	FAULT CONDITIONS		Р
13.2	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	Р
13.3	When operated under fault conditions the lamp		Р
	- does not emit flames or molten material		Р
	- does not produce flammable gases or smoke		Р
	- live parts not accessible		Р
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1:		Р
14 (16)	CREEPAGE DISTANCES AND CLEARANCES		Р
	Creepage distances and clearances according to IEC 61347-1	(see appended table)	Р
	Conductive accessible parts according to IEC 60598-1	(see appended table)	Р

15	ABNORMAL OPERATION	Р
	Non-dimmable self-ballasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8	Р
	Operate the lamp for 8 h at most onerous dimming level	Р
	When operated under abnormal operation the lamp	Р
	- does not catch fire	Р
	- does not produce flammable gases	Р
	- live parts not accessible	Р

	IEC 62560				
Clause	Clause Requirement + Test Result - Remark				
16	16 TEST CONDITIONS FOR DIMMABLE LAMPS				
	Test are carried out at maximum power setting for Clause 10 and Clause 17				

17	PHOTOBIOLOGICAL SAFETY			Р
17.1	UV radiation			Р
	The LED lamp doesn't exceed 2mW/klm			Р
17.2	7.2 Blue light hazard			Р
	Assessed according to IEC TR 62778			Р
	LED lamps shall be RG0 or RG1 RG0			Р

18	INGRESS PROTECTION		N/A	
18.1	Lamps shall be suitable for water contact unless marked with Figure 6	marked with figure 6	N/A	
18.2	The lamp is subjected to an IPX4 test according to IEC 60598-1		N/A	
	The lamp complies with the compliance provisions of 9.2 of IEC 60598-1		N/A	
	Lamps constructed so that it is sealed to exclude water need not to be tested		N/A	

IEC 62560					
Clause	Requirement + Test		Result - Remark		Verdict

11	TABLE: Ball Pres	ssure Test of Thermo	oplastics		N/A
Allowed impression diameter (mm)		2		_	
Object/ Part No./ Material Manufacturer/ trademark		Test temperature (°C)	Impression diameter (mi		
Lamp cover		See ANNEX 1	80	1.0	
Plastic encl	osure	See ANNEX 1	80	1.4	
Inductor bob	obin	See ANNEX 1	125	0.6	
Supplement	ary information:	•			

12	12 TABLE: Resistance to heat and fire - Glow wire tests				
O	Object/		Glow wire to	Glow wire test (GWT); (°C)	
-	rt No./	Manufacturer/ trademark	650		
Ma	aterial		te	ti	-
Lamp cover		See ANNEX 1	0	0	Р
Plastic encl	osure	See ANNEX 1	0	0	Р

13	TABLE: tests of fault conditions		
Part	Simulated fault Result		Hazard
BD1	Short-circuit	Fusible resistor (F1) was opened	NO
C1	Short-circuit	Fusible resistor (F1) was opened	NO
C4	Short-circuit	LED packages no working	NO
D1	Short-circuit	LED packages no working	NO

14	TABLE: Clearance And Creepage Distance Measurements						Р
clearance cl	and creepage r at/of:	Up (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Between L a	nd N	-	240	1.5	>1.5	2.5	>2.5
Between live accessible s		-	240	3.0	>3.0	5	>5.0

Page 12 of 21

Report No. AOC250522003S

		IEC 62560	
Clause	Requirement + Test	Result - Remark	Verdict
Suppleme	entary information:		

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1 TABLE: Critical components information						
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED package	С	JIANGMEN ZHONGYANG OPTOELECTRO NICS CO., LTD	2835	3 V, 60 mA	IEC 62560	Tested with appliance
LED module PCB	С	JIANGMEN ZHONGHAO PRECISION ELECTRONICS CO LTD	ZH-M	130 °C, V-0	IEC 62560	UL E364454 tested with appliance
Fusible resistor (F1)	С	SHENZHEN LONG JIAN DA CO., LTD.	-	2.2 R, 1/2 W	IEC 62560	Tested with appliance
Alt.	С	QIAN ZHI(SHENZHEN) CO., LTD.	-	2.2 R, 1/2 W	IEC 62560	Tested with appliance
Alt.	С	ANHUI CHANG SHENGELECTR ONICS CO., LTD.	-	2.2 R, 1/2 W	IEC 62560	Tested with appliance
Internal wire	С	BO SUNG SILICONE CO	3135	600 V, 22 AWG, 200 °C	IEC 62560	UL E131290 tested with appliance
РСВ	С	DALIAN ASIA PACIFIC ELECTRONICS CO LTD	JX-02	V-0, 130 °C	IEC 62560	UL E246715 tested with appliance
Heat shrinkable tube	С	Shezhen Woer Heat-Shrinkable Material Co Ltd	RSFR-H	600 V, 125 °C, VW-1, min 0.3 mm thickness	IEC 62560	UL E203950 tested with appliance
Plastic enclosure	С	Zhongshan Fantas Lighting Co., Ltd	Fantas-1	V-0, 130 °C	IEC 60560	Tested with appliance
Lamp cover	С	LOTTE ADVANCED MATERIALS CO LTD	SC-110(+)	PC	IEC 60560	UL E115797 tested with appliance
Inductor (T1)	В	Zhongshan Fantas Lighting Co., Ltd	EE10-016A	130 °C	IEC 60560	Tested with appliance

Page 14 of 21

Report No. AOC250522003S

appliance

IEC 62560								
Clause	Requirer	ment + Test			Result - F	Remark		Verdict
-Bobbin	С	SUMITOMO BAKELITE CO	PM-9820	V-0, 1	150 °C	IEC 62560		E41429 ted with

Supplementary information:

The codes above have the following meaning:

- A The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- C Integrated component tested together with the appliance

LTD

D - Alternative component

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

	IEC 62560		
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2:	temperature measureme	nts, thermal tests of Sect	ion 10		Р	
	Type referencet	······································	PL-01		_	
	Used ballast	:	/	1		
	Mounting position of luminaire			Cap Up and Cap down		
	Supply wattage (W)	:	18 W			
Supply current (A)		:				
	Calculated power factor	:	 D: 240V			
	Table: measured temperat	ures corrected for ta = 25°0				
	Test: rated voltage	:				
T	(00) - (Test value	Result			
remperatur	e (°C) of part	Normal (°C)	Abnormal(°C)	Limit(°	°C)	
	internal wire	81.4	-	200)	
	E-cap.	76.8	-	180)	
	U2	90.3	-	130)	

IEC 62560C - ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

ATTACHMENT TO TEST REPORT IEC 62031 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

LED modules for general lighting – Safety specifications

Differences according to EN 62560:2012+A11:2019

Attachment Form No...... EU_GD_IEC62560C

Attachment Originator...... DEKRA Certification B.V.

Master Attachment...... Dated 2018-12-21

Copyright © 2013 IEC System for Conformity Testing and Certification of Electrical Equipment

(IECEE), Geneva, Switzerland. All rights reserved.

CENEI	LEC COMMON MODIFICATIONS (EN)	N/A
No Cor	mmon modifications	N/A

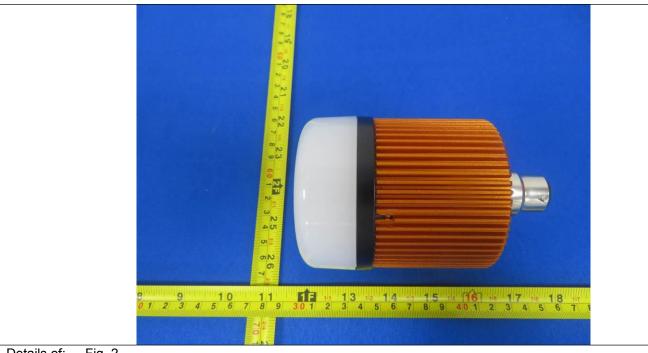
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A	
	No special National conditions		N/A	

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A	
	No National deviations		N/A	

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Product Photos

Details of: Fig. 1



Details of: Fig. 2



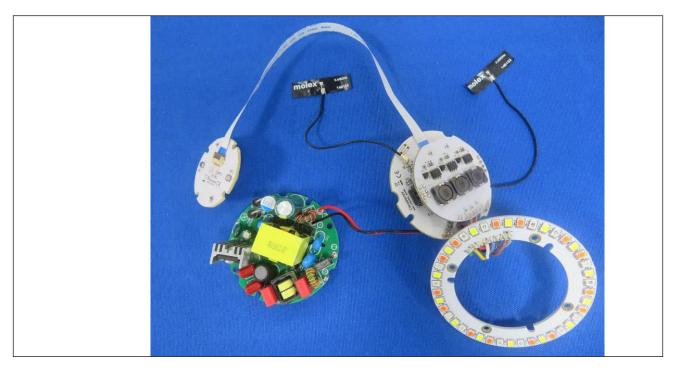
Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Product Photos

Details of: Fig. 3



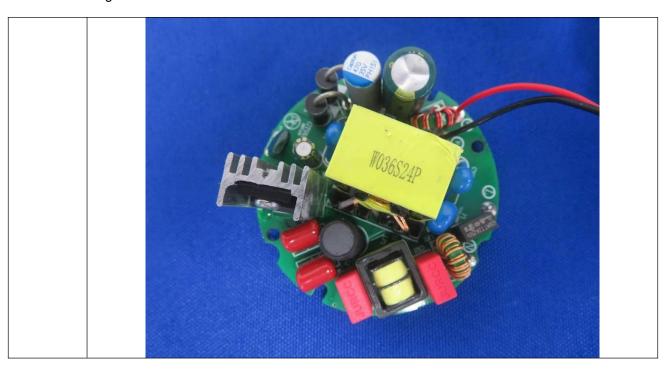
Details of: Fig. 4



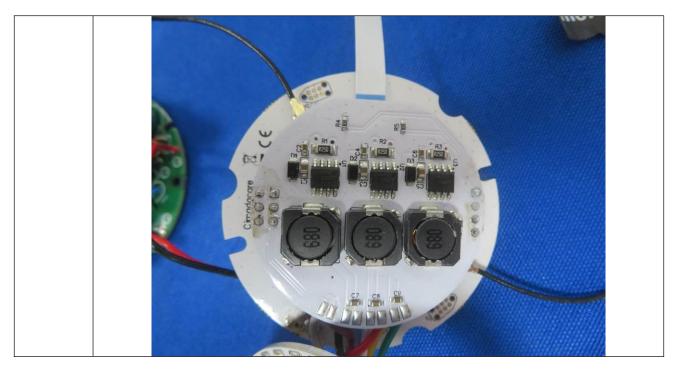
Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Product Photos

Details of: Fig. 5



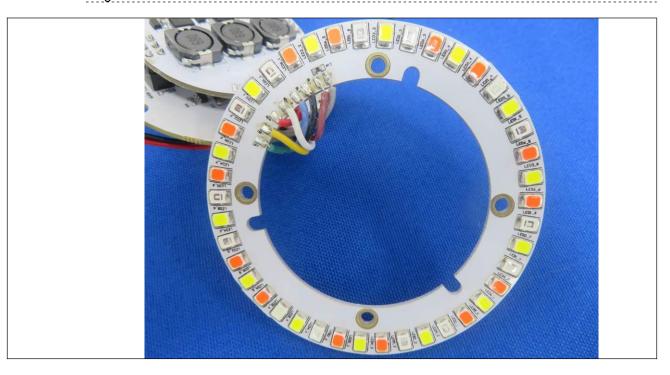
Details of: Fig. 6



Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Product Photos

Details of: Fig. 7



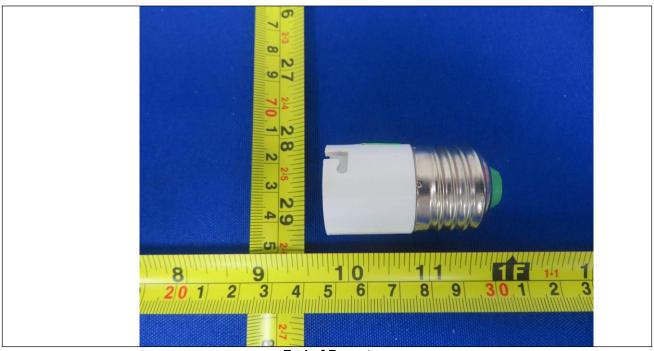
Details of: Fig. 8



Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Product Photos

Details of: Fig. 9



-- End of Report --

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com