

CE LVD TEST REPORT

For

LED Bulb

Model No.: VT-1110, VT-1110 D, VT-1112D

Applicant: V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL,

CENTRAL, HONGKONG

Manufacturer: V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL.

CENTRAL, HONGKONG

Issued By: Global-Standard Testing Service Co., Ltd.

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Report Number: D00.06.0438S

Issued Date: December 26,2016

Date of Report: December 26,2016

Note:

- 1. The test data and result is based on the tested sample only.
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TEST REPORT

EN 62560:2012+A1:2015

Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications

	<i>y</i> 1
Report reference No	D00.06.0438S
Testing laboratory	Global-Standard Testing Service Co., Ltd.
Location:	Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.
Applicant	V-TAC EXPORTS LIMITED
Address:	ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
Manufacturer	V-TAC EXPORTS LIMITED
Address:	ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
Standards:	EN 62031:2008+A1+A2:2015 EN 62471:2008 EN 62493:2015
Procedure deviation:	N/A
Non-standard test method:	N/A
Type of test equipment	LED Bulb
Trade mark:	V-TAC
Model/Type designation:	VT-1110,VT-1110 D, VT-1112D
Rating:	AC230V, 50/60Hz, 7W
Copyright blank test report:	Global-Standard Testing Service Co., Ltd.
Test item particulars:	
Operating Condition	Continuous
Class of equipment	Class II equipment
Protection against ingress of water	IP20



General remarks:	
"(see remark #)" refers to a remark appended to the report.	Attached with:
"(see appended table)" refers to a table appended to the report.	Attachment - A. Photo Documentation
Throughout this report a comma is used as the decimal separator.	
The test results presented in this report relate only to the object tested.	
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Until otherwise specified, all tests are done under normal ambient condition 25℃±10℃, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.	

Brief description of the test sample:

- 1. The equipment with models VT-1110, VT-1110 D, VT-1112D
- All the models are the same construction except cap head, LED color and LED numbers. The control gear inside lamp with different out voltage have different parameters of secondary components.
- 3. Model VT-1110 D was selected as representative sample.
- 4. The European standard EN 62471 for LED laser product requirement has considered.
- 5. Clauses 8,10, 11, 12, 14, 16, 17, 18, 19 and 20 of the European standard test EN61347-2-13 used in conjunction with EN 61347-1 for lamp control gear inside VT-1110 D have been consideration.
- 6. The Safety specifications of LED modules for general lighting was evaluated with reference to EN 62031.
- 7. The European standard EN 62493 for requirement has considered.



Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

Name and address of the testing laboratory:

Global-Standard Testing Service Co., Ltd.
Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.

Tested by : Sean Xiao December 24,2016
Signature Date

Sean Xiao/ Engineer
Name/title

Witnessed by: Signature December 26,2016

Date

Jerry Hu / project Engineer Name/title

Approved by : December 26,2016

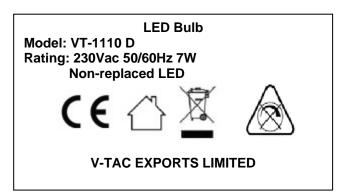
Signature Date

Tim Sun / Manager

Name/title



Copy of marking plate



Note: Due to similarity of the labels, only above label was listed.

- The above copy of marking plate as an example, All the other models will have the same marking plate except the model name and input rating only and other parameter
- -The above markings are the minimum requirements required by the safety standard. For the final productions samples, the additional markings which do not give rise to misunderstanding may be added.
- the height of WEEE directive mark is at least 7mm height.



	EN 62560		
Clause	Requirement	Result - Remark	Verd.
			_
4	GENERAL REQUIREMENTS		Р
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.		Р

5.	MARKING		Р
5.1	Mandatory marking	V-TAC EXPORTS LIMITED	Р
	- mark of origin		Р
	- rated supply voltage (V)	230VAC	Р
	- rated wattage (W)	See label	Р
	- rated frequency (Hz)	50/60Hz	Р
5.2	Addition marking	See label	Р
	- burning position		N
	- rated current (A)		Р
	- weight significantly higher	Warning:increased weight of lamp may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lanp retention (inthe instruction manual)	Р
	- special conditions or restrictions		Ν
	Not suiltable for dimming;symbol used		Р
	- eye protection	The products are classified as exempt group according to IEC 62471:2006.	Р
5.3	Marking durable and legible		Р
	rubbing 15 s water, 15 s petroleum; marking legible		Р
Addition:	Position of the marking	On the body	Р
	Language of instructions	English	Р
	Suitability for use indoors		Р
	Wireways smooth and free from sharp edges		Р



			EN 62560		
Claus	se	Requirement – Test		Result - Remark	Verdict

6	INTERCHANGEABILITY	Р
6.1	Cap interchangeability in accordance with IEC 60061-1	
	Gauge in accordance with IEC 60061-3	Р
6.2	Bending moment,axial pull ande mass	Р
	Bending moment imparted by the lamp at the lampholder	Р
	Lamp construction withstands axial pull (N)	Р
	Mass not exceeding value tabel 2 (kg) 0.074kg	Р

7.	PROTECTION AGAINST ACCIDENTAL CONTAC	T WITH LIVE PARTS	Р
	Internal, basic insulated or live metal parts not accessible		Р
	Tested with a test finger with a force of 10 N		Р
	Compliance checked with appropriate gauges		N
Addition:	Live parts not accessible		Р
	Protection in any position		Р
	Insulation lacquer not reliable		Р
	Class II luminaire:		Р
	- insulation-encased, reinforced insulation		Р
	- glass protective shields not used as supplementary insulation		Р
	Covers have adequate strength		Р
	Covers reliably secured		Р
	Portable plug connected luminaire with capacitor		N

8.	INSULATION RESISTANCE AND ELECTRIC STRENGTH AFTER HUMIDITY TREATMENT		Р
8.1	Insulation resistance and electric strength shall be the lamp and accessible parts of the lamp.	adequate between live parts of	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 (MΩ):		Р
	\geq 4 M Ω for double or reinforced insulation :	100 MΩ.	Р
8.3	Immediately after clause 8.2 electric strength test for 1 min		Р



	EN 62560			
Clause	Requirement – Test	Result - Remark	Verdict	
	Double or reinforced insulation, 4U + 2000 V	3000	Р	
	No flashover or breakdown		Р	

9.	MECHANICAL STRENGTH		Р
	Torsion resistance of unused lamps		
9.1	Torque test		Р
	B 15 d Cap 1,15 Nr	1	N
	B 22 d Cap	1	N
	E 11 Cap	1	N
	E 12 Cap	1	N
	E 14 Cap1,15 Nr	1	N
	E 27 Cap	1	N
	Cap 3,0 Nr	1	N
	GU 10 1.5 Nr	1	N
	GX 53 Cap	1	Р
9.2	Torsion resistance of lamps after a defined time of	usage	N
	Torsion resistance of used lamp	under consideration.	N
9.3	Repetition of clause 8		Р
	Clause 8 shall comply after the mechanical strength test.		Р
Addition:	Lampholders		N
	Mounting brackets for Edison screw or bayonet- capped lampholders are subjected to testing for 1min, to the following bending moments:		N
	Locked connections:		Р
	- fixed arms; torque (Nm)	5.0Nm	Р
	- lampholder; torque (Nm):		N
	- push-button switches; torque (Nm):		N
	No sharp point or edges		Р
	Impact tests:		Р
	- fragile parts; energy (Nm)	0.35Nm	N
	- other parts; energy (Nm)		Р
	1) live parts		Р



	Report Reference No.: D00.06.0438 EN 62560		
Clause	Requirement – Test	Result - Remark	Verdict
			7 0 0 0 0
	2) linings		Р
	3) protection		Р
	4) covers		Р
	Straight test finger		Р
10	CAP TEMPERATURE RISE		Р
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.		Р
	- B22d125K :		N .
	- B15d		N
	- E27		N
	- Cap125 K :		N
	- E17125 K :		N
	-GU1075 K		N
	GX53120K:		P
	5,00	00.4	
11	RESISTANCE TO HEAT		Р
	External parts of insulating material providing protection against electric shock, and parts of insulating material retaining live parts in position, ball pressure test:		Р
	Part tested; temperature (°C);	See appended table	Р
	diameter of impression (≤ 2 mm):		
	Part tested; temperature (°C);		N
	diameter of impression (≤ 2 mm):		
	Part tested; temperature (°C);		N
	diameter of impression (≤ 2 mm):		
			<u>_</u>
12.	RESISTANCE TO FLAME AND IGNITION		Р
	Parts of insulating material retaining live parts in position and external parts of insulating material providing protection against electric shock, glowwire test 650 °C		Р
	- no flaming drops igniting tissue paper		Р
	- flame extinguished within 30 s		Р
	•	•	



EN 62560							
Clause	Clause Requirement – Test Result - Remark						
			 				
	Part tested; temperature (°C)	See table 11	Р				
	No visible flame and no sustained glowing		Р				

13	FAULT CONDITIONS		Р		
13.2	Extreme electrical conditions (dimmable lamps)				
	Lamp withstands overpower condition >15 min.		N		
	Lamp fails safe after 15 min overpower condition		Р		
	Lamp with automatic protective device or power limiter, test performed 15 min. at limit.		Р		
13.3	Extreme electrical conditions (non-dimmable lamps)				
	Tested according 13.2 (as far as possible)		Р		
13.4	Short-circuit across capacitors	(see appended table)	Р		
13.5	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	Р		
13.6	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			
	Creep age distances and clearances according to Table 3 and 4 of IEC 61347-1, as appropriate	Р		
	Printed boards see clause 14 of IEC 61347-1	Р		
	Insulating lining of metallic enclosures	N		



TABLE	List of critical components and materials					
Component	manufacturers / trademark	Type / model	Value / rating	Approval/ Reference		
PCB	Shikibo Electronics Co Ltd	E4	V-0, 130℃	UL		
Heat-shrinkable tube	Shenzhen Woer Heat- Shrinkable Material Co Ltd	RSFR	600V, 125℃	UL		
internal wire		1007	VW-1, 300V, 80°C, 22AWG	UL		
Plastic part	CHENGUANG RESEARCH INSTITUTE OF CHEMICAL IND CHINA NATL BLUE STAR CO LTD	PCV0	V-0, 130℃	UL		



Test Data table

13	TABLE: tests of fault conditions			
Part	Simulated fault Result			

11	TABLE: ba	Р			
Part		Test temperature (℃)	Impression diameter (mm)	Required impression diameter (mm)	
РСВ		125	0.86		≤2.0
Lamp shade		75	1.23		≤2.0

14(16) TAI	BLE: CI	Clearance And Creep age Distance Measurements					Р
clearance cl and creep age distance decry at/of:		Up (V)	U rams. (V)	Required cl (mm)	cl (mm)	required decry (mm)	decry (mm)
L and N on PCB		-	230	1.5	2.6	2.5	4.2
Different polarity of f	use		230	1.5	2.7	2.5	2.7
Live parts on driver PCB and accessible part			230	3.0	>3.0	3.0	>3.0
Primary circuit and secondary circuit of I driver PCB	LED		230	3.0	>3.0	3.0	>3.0
Primary winding of transformer and secondary circuit of LED driver			230	3.0	>3.0	3.0	>3.0
Core of transformer and secondary winding of LED driver			230	3.0	>3.0	3.0	>3.0
Supplementary information:							



Attachment –A Photo Documentation

Report Reference No.: D00.06.0438S

Photo 1

View:

[√] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal



Photo 2

View:

[√] Front

[] Rear

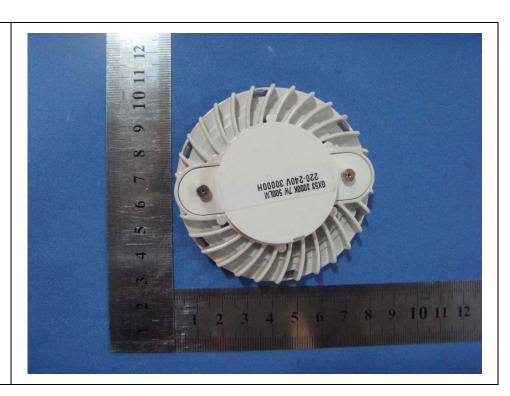
[] Right side

[] Left side

[] Top

[] Bottom

[] Internal



--END--