

CE LVD TEST REPORT

For

LED FILAMENT BULB

VT-1996, VT-1986, VT-1997, VT-1985, VT-1995, VT-1961, VT-1976, Model No.:

VT-1986D, VT-1997D, VT-1985D, VT-1995D, VT-1996D, VT-1886, VT-1896, VT-1897, VT-1936, VT-1937, VT-1835, VT-1953, VT-1924, VT-1927, VT-1928, VT-1923, VT-1955, VT-1949, VT-1948, VT-1947, VT-2044, VT-2054, VT-2056, VT-2104, VT-2134D, VT-2174, VT-2184, VT-254, VT-254D, VT-274, VT-264, VT-2127, VT-2152, VT-

2204

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

Global-Standard ervice Co., Ltd. Issued By:

> Qian Jin 1st Road, Bao An Room 1911-

d China. District, Sherzh

resting

+86 755 3386359 Tel:

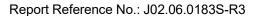
Email: market@gstslab.com

Report Number: J02.06.0183S-R3

Issued Date: January 16, 2019 Date of Report: January 16, 2019

Note:

- 1. The test data and result is based on the tested sample only.
- 2. Please verify information in the report on GST web: www.gstslab.com through report number.
- 3. All rights reserve, the pirate edition investigates necessarily! This report shall not be reproduced unless under the authority of Global-Standard Testing Service Co., Ltd.





TEST REPORT EN 62560:2012

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

-	- Salety specifications
Report reference No	J02.06.0183S-R3
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 62560:2012+A1:2015 EN 60061-1:1993+A:57:2018 EN 62031:2008+A1:2013+A2:2015 EN 61347-1:2015 EN 61347-2-13:2014+A1:2017 EN 62471:2008 EN 62493:2015
Procedure deviation	N/A
Non-standard test method:	N/A
Type of test equipment	LED FILAMENT BULB
Trade mark	V-TAC
Model/Type designation:	VT-1996, VT-1986, VT-1997, VT-1985, VT-1995, VT-1961, VT-1976, VT-1986D, VT-1997D, VT-1985D, VT-1995D, VT-1996D, VT-1886, VT-1896, VT-1897, VT-1936, VT-1937, VT-1835, VT-1953, VT-1924, VT-1927, VT-1928, VT-1923, VT-1955, VT-1949, VT-1948, VT-1947, VT-2044, VT-2054, VT-2056, VT-2104, VT-2134D, VT-2174, VT-2184, VT-254, VT-254D, VT-274, VT-264, VT-2127, VT-2152, VT-2204
Rating:	AC220-240V, 50-60Hz, 7W Max
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.	
This report shall not be reproduced except in full without the written approval of the testing laboratory.	
Until otherwise specified, all tests are done under normal ambient condition 25°C±10°C, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.	

Brief description of the test sample:

- 1 This report covers the LED FILAMENT BULB with models VT-1996, VT-1986, VT-1997, VT-1985, VT-1995, VT-1961, VT-1976, VT-1986D, VT-1997D, VT-1985D, VT-1995D, VT-1996D, VT-1886, VT-1896, VT-1897, VT-1936, VT-1937, VT-1835, VT-1953, VT-1924, VT-1927, VT-1928, VT-1923, VT-1955, VT-1949, VT-1948, VT-1947, VT-2044, VT-2054, VT-2056, VT-2104, VT-2134D, VT-2174, VT-2184, VT-254, VT-254D, VT-274, VT-264, VT-2127, VT-2152, VT-2204 for indoor use;
- 2.All models have the same construction except for wattage;
- 3. The model VT-1997 was selected as representative sample to perform all testing;
- 4. The standard of LED modules for general lighting was evaluated with reference to EN 62031;
- 5. The standard of EN 62471 and EN 62493 have been considered in report.
- 6. This report is based on report J02.06.0183S-R2 dated April 24, 2018.



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 : January 13, 2019
Signature Date

Evan Chen/ Engineer
Name/title

Witnessed by:

Signature

Wang

January 16, 2019

Date

Gloria Wang / project Engineer
Name/title

Approved by : January 16, 2019

Signature Date

Nico Xie / Manager Name/title



Label

Representative

LED FILAMENT BULB

Model: VT-1997

Rating: AC 220-240V, 50-60Hz, 7W Max

Non-replaced LED







V-TAC EXPORTS LIMITED Made in China

Note:

- 1.Due to similarity of the labels, only above label was listed;
- 2,All models have the same marking plate except the model name and input rating with wattage;
- 3. The height of WEEE directive mark is at least 7mm and others directive mark are at least 5mm 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	Р
	- mark of origin	Made in China	Р
	- rated supply voltage (V)	220-240VAC	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)	. 36mA	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		N/A
	Not suiltable for dimming;symbol used		Р
	- eye protection	The products are classified as exempt group according to IEC 62471:2008.	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



Ρ

		Report Reference No., 302.00.	01000-110		
	EN 62560				
Clause	Requirement – Test	Result - Remark	Verdict		
		1	1		
	Wireways smooth and free from sharp edges		Р		
6	INTERCHANGEABILITY		Р		
6.1	Cap interchangeability in accordance with IEC 60061-1		Р		
	Gauge in accordance with IEC 60061-3		N/A		
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)	40N	Р		

0.013kg

Mass not exceeding value tabel 2 (kg)

7.	PROTECTION AGAINST ACCIDENTAL CONTAC	CT 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/A
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		N/A
	Covers have adequate strength		N/A
	Covers reliably secured		N/A
	Portable plug connected luminaire with capacitor		N/A

8.	INSULATION RESISTANCE AND ELECTRIC STRENGTH AFTER HUMIDITY TREATMENT		Р
8.1	Insulation resistance and electric strength shall be adequate between live parts of the lamp and accessible parts of the lamp.		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 M Ω .		Р



	EN 62560			
Clause	Requirement – Test	Result - Remark	Verdict	
8.3	Immediately after clause 8.2 electric strength test for 1 min		N/A	
	Double or reinforced insulation, 4U + 2000 V		N/A	
	No flashover or breakdown		N/A	

9.	MECHANICAL STRENGTH		Р
	Torsion resistance of unused lamps		
9.1	Torque test		Р
	B 15 d Cap1,15 Nr	1	N/A
	B 22 d Cap	1	N/A
	E 11 Cap	1	N/A
	E 12 Cap	1	N/A
	GU10 Cap 1.15Nn		N/A
	E 14 Cap1,15 Nr	under consideration	Р
	E 27 Cap 1,5 Nr	1	N/A
	GX 53 Cap 3,0 Nr	1	N/A
	GU13 Cap1.15 Nr	1	N/A
9.2	Torsion resistance of lamps after a defined time of	usage	Р
	Torsion resistance of used lamp		Р
9.3	Repetition of clause 8		Р
	Clause 8 shall comply after the mechanical strength test.		Р
Addition:	Lampholders		Р
	Mounting brackets for Edison screw or bayonet- capped lampholders are subjected to testing for 1min, to the following bending moments:		Р
	Locked connections:		Р
	- fixed arms; torque (Nm):		N/A
	- lampholder; torque (Nm):	1.15Nm	Р
	- push-button switches; torque (Nm):		N/A
	No sharp point or edges		Р
	Impact tests:		Р
	- fragile parts; energy (Nm):	0.2Nm	Р



	EN 62560	Report Reference No.: J	
Clause	Requirement – Test	Result - Remark	Verdict
	- other parts; energy (Nm)		N/A
	1) live parts		Р
	2) linings		Р
	3) protection		Р
	4) covers		N/A
	Straight test finger		N/A
10	CAP TEMPERATURE RISE		Р
	The cap temperature rise Δt_s of the lamp ϵ	shall not exceed 120 K.	Р
	- B22d	125K	N/A
	- B15d	120K	N/A
	- E27	120K	N/A
	- E14	125K 23.9K	Р
	- GU10	.100K	N/A
	- GU13	.100K	N/A
11	RESISTANCE TO HEAT		N/A
	External parts of insulating material providir protection against electric shock, and parts insulating material retaining live parts in posball pressure test:	of	N/A
	Part tested; temperature (°C);		N/A
	diameter of impression (≤ 2 mm):		
	Part tested; temperature (°C);		N/A
	diameter of impression (≤ 2 mm):		
	Part tested; temperature (°C);		N/A
	diameter of impression (≤ 2 mm):		
12.	RESISTANCE TO FLAME AND IGNITION		N/A
	Parts of insulating material retaining live parts	rts in	N/A
	position and external parts of insulating material providing protection against electric shock, wire test 650 °C	erial	IN/A
	- no flaming drops igniting tissue paper		N/A



	EN 62560			
Clause	Requirement – Test	Result - Remark	Verdict	
	- flame extinguished within 30 s		N/A	
	Part tested; temperature (°C)		N/A	
	No visible flame and no sustained glowing		N/A	

13	FAULT CONDITIONS	N/A			
13.2	Extreme electrical conditions (dimmable lamps)				
	Lamp withstands overpower condition >15 min.		N/A		
	Lamp fails safe after 15 min overpower condition		N/A		
	Lamp with automatic protective device or power limiter, test performed 15 min. at limit.		N/A		
13.3	Extreme electrical conditions (non-dimmable lamps)				
	Tested according 13.2 (as far as possible)		N/A		
13.4	Short-circuit across capacitors	(see appended table)	N/A		
13.5	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	N/A		
13.6	When operated under fault conditions the lamp				
	- does not emit flames or molten material		N/A		
	- does not produce flammable gases or smoke		N/A		
	- live parts not accessible		N/A		
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1		N/A		

14 (16)	CREEPAGE DISTANCES AND CLEARANCES		Р
	Creepage 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	1	N/A



TABLE	List of critical components and materials				
Component	manufacturers / Type / Value / rating model		Approval/ Reference		
E14 lamp base	Various	Various	Copper 60%	Ref	
PCB	Shikibo Electronics Co Ltd	E4	V-0, 130℃	UL	
Internal wire	various	1007	VW-1, 105℃, 24AWG	UL	

Test Data table

11	TABLE: b	TABLE: ball pressure test of thermoplastics					N	/A	
Part		Test temperature (℃)		Impression diameter (mm)		Required impression diameter (mm)			
	T						1		
13	TABLE: tests	of fault cond	ditions				N	/A	
Part	Simulated fault			Result			Н	azard	
14(16)	TABLE: C	learance An	d Creep age	Distance Mea	surements		Р	Р	
clearance cl and creep age distance decry at/of:		Up (V)	U rams. (V)	Required cl (mm)	cl (mm)	required decry (mm)	d ded (m		
L and N on PCB			240	1.5	2.68	2.5	2.68		
Different polarity of fuse				1.5		2.5			
Live parts of driver PCB and accessible part				3.0		5.0			
Primary circuit and secondary circuit of LED driver PCB				3.0		5.0	_	-	
Primary winding of transformer and secondary circuit of LED driver				3.0		5.0	-	-	
Supplementary information:									
	Temperature n	neasurement	S,					Р	



Type reference	Type reference:				VT-1997		
Lamp used	Lamp used:				LED		
Ballast used		·····:		_	-		
Mounting position	of luminaire	:		As in normal	_		
Supply wattage (W	/)	:		7.31W	-		
Supply current (A)		:		0.022A	-		
Table: measured t	emperatures	corrected for T	a = 25°C:		Р		
- abnormal operati	ng mode	:		_	-		
- test 1: rated volta	- test 1: rated voltage:				_		
- test 2: 1,06 times rated wattage	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:			1.06×240	_		
- test 3: Load on w 1,06 times voltage	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:			_	-		
- test 4: 1,1 times i rated wattage	mes rated voltage or 1,05 times			_	1		
temperature (C) of part		clause 12.4	- normal	rmal clause 12		2.5 - abnormal	
	test 1	test 2	test 3	limits	test 4	limit	
E 27 lamp base		48.9		Ref			
Glass surface		43.1		Ref			
Supplementary information:	Supplementary information:						



Attachment –A Photo Documentation

Photo 1

View:

[√]

[]

[]

[]

[]

[]

[]

Front	
Rear	
Right side	
Left side	
Тор	
Bottom	45 48 68 88 88 88 88 88 88 88 88 88 88 88 88
Internal	

--END.--