

CE LVD TEST REPORT

For

SPOTLIGHT FITTING

Model No.: VT-762, VT-763, VT-764, VT-765, VT-771, VT-772, VT-773, VT-774,

VT-775, VT-776, VT-777, VT-778, VT-779, VT-780, VT-781, VT-782, VT-783, VT-784, VT-785, VT-786, VT-787, VT-788, VT-791, VT-796, VT-797, VT-7111, VT-7227, VT-790, VT-789, VT-701, VT-702, VT-703,

VT-872, VT-873, VT-874, VT-875, VT-876

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.

Room 1911 914, Noble 7 21, Qian Jin 1st Road, Bao An

District, Shenzhen, Guangdong, China.

Tel: +86 755 33863599

Email: market@gstslab.com

Report Number: D00.06.0418S-R2

Issued Date: January 17, 2019

Date of Report: January 17, 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.
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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

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D00.06.0418S-R2
Global-Standard Testing Service Co., Ltd.
Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.
V-TAC EXPORTS LIMITED
ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
V-TAC EXPORTS LIMITED
ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
EN 62560:2012+ A1:2015 EN 60061-1:1993+A57:2018 EN 62031:2008+A1:2013+A2:2015 EN 61347-1:2015 EN 61347-2-13:2014+A1:2017 EN 62471:2008 EN 62493:2015
N/A
N/A
SPOTLIGHT FITTING
V-TAC
VT-762, VT-763, VT-764, VT-765, VT-771, VT-772, VT-773, VT-774, VT-775, VT-776, VT-777, VT-778, VT-779, VT-780, VT-781, VT-782, VT-783, VT-784, VT-785, VT-786, VT-787, VT-788, VT-791, VT-796, VT-797, VT-7111, VT-7227, VT-790, VT-789, VT-701, VT-702, VT-703, VT-872, VT-873, VT-874, VT-875, VT-876
AC 230V, 50/60Hz, Max.35W
Global-Standard Testing Service Co., Ltd.
Continuous
Class II equipment

IP20

Protection against ingress of water



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℃±10℃, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.	

Brief description of the test sample:

- The equipment with models VT-762, VT-763, VT-764, VT-765, VT-771, VT-772, VT-773, VT-774, VT-775, VT-776, VT-777, VT-778, VT-779, VT-780, VT-781, VT-782, VT-783, VT-784, VT-785, VT-786, VT-787, VT-788, VT-791, VT-796, VT-797, VT-7111, VT-7227, VT-790, VT-789, VT-701, VT-702, VT-703, VT-872, VT-873, VT-874, VT-875, VT-876;
- 2.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. The model VT-776 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-1890 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.
- 8. This report is based on report D00.06.0418E-R1 dated August 15, 2017



Possible test case verdicts:

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

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

August 12, 2017

Signature

Date

John Huang/ Engineer Name/title

January 17, 2019

Gloria Wang / project Engineer Name/title

Approved by:

January 17, 2019 Date



Copy of marking plate

SPOTLIGHT FITTING

Model: VT-776

Rating: AC 230V, 50/60Hz, 35W Non-replaced LED





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				
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		N		
	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		
	Wireways smooth and free from sharp edges		Р		



	Report Reference No.: D00.06.0	<u> 1418S-R2</u>					
	EN 62560						
Clause	Requirement – Test	Result - Remark	Verdict				
_							
6	INTERCHANGEABILITY		Р				
6.1	Cap interchangeability in accordance with IEC 60061-1		Р				
	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):	0.045kg	Р				

7.	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS				
	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					
8.1	Insulation resistance and electric strength shall be the lamp and accessible parts of the lamp.	Insulation resistance and electric strength shall be adequate between live parts of the lamp and accessible parts of the lamp.				
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):					
	\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					
	Double or reinforced insulation, 4U + 2000 V	3000	Р			



	EN 62560						
Clause	Requirement – Test Result - Remark						
	No flashover or breakdown		Р				
	No hashover of breakdown		<u> </u>				
9.	MECHANICAL STRENGTH		Р				
	Torsion resistance of unused lamps						
9.1	Torque test		Р				
	B 15 d Cap1,15 Nm		N				
	B 22 d Cap3,0 Nm		N				
	E 11 Cap0,8 Nm		N				
	E 12 Cap		N				
	E 14 Cap1,15 Nm		N				
	E 27 Cap1,5 Nm		N				
	GU 10 Cap1.5 Nm		Р				
	GX 53 Cap3,0 Nm	under consideration	N				
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				
	2) linings		Р				
	3) protection		Р				



Report Reference No.: D00.06.0418S-R2 EN 62560 Clause Requirement - Test Result - Remark Verdict 4) covers Straight test finger Ρ 10 **CAP TEMPERATURE RISE** Ρ The cap temperature rise Δt_s of the lamp shall not exceed 120 K. Ρ - B22d......125K : Ν - B15d......120K : Ν - E27......120K : Ν Ν - Cap......125 K : - E17......125 K : Ν -GU10......75 K | 48.3 Ρ 11 RESISTANCE TO HEAT Ρ External parts of insulating material providing Р protection against electric shock, and parts of insulating material retaining live parts in position, ball pressure test: Ρ Part tested; temperature (°C); See appended table diameter of impression (≤ 2 mm): Part tested; temperature (°C); Ν diameter of impression (≤ 2 mm): Part tested; temperature (°C); Ν diameter of impression (≤ 2 mm): 12. RESISTANCE TO FLAME AND IGNITION Ρ 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

See table 11

- flame extinguished within 30 s

Part tested; temperature (°C).....

No visible flame and no sustained glowing

Ρ

Р

Р



		Report Reference Non Book			
	EN 62560				
Clause	Requirement – Test	Result - Remark	Verdict		
13	FAULT CONDITIONS				
13	FAULT CONDITIONS		P		
13.2	Extreme electrical conditions (dimmable lamps)		Р		
	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		

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		

- does not produce flammable gases or smoke

After the tests the insulation resistance with d.c.

1000 V complies with requirements of Cl. 8.1.....

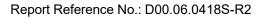
- live parts not accessible

P P

Ρ



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





Test Data table

				T C S C D C	ita tabie				
13	TA	TABLE: tests of fault conditions							N
Part	Simulated fault				Result	Result			
11		TABLE: ba	all pressure	test of ther	moplastics				Р
Part			Test tempe	rature (℃)	Impression (mm		Require diam	d impre eter (m	
PCB			12	25	0.78	8		≤2.0	
Lamp shade	е		7	5	1.2	1		≤2.0	
14(16)		TABLE: C	learance An	d Creep age	Distance Mea	asurements			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	PCE	3		230	1.5	2.6	2.5		4.2
Different po	larit	y of fuse		230	1.5	2.7	2.5		2.7
Live parts o and access				230	3.0	>3.0	3.0		>3.0
Primary circuit and secondary circuit of LED driver PCB				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	
Supplemen	ntary	, informatio	n:						



Attachment –A Photo Documentation

Report Reference No.: D00.06.0418S-R2

Photo 1

View:

[√] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal

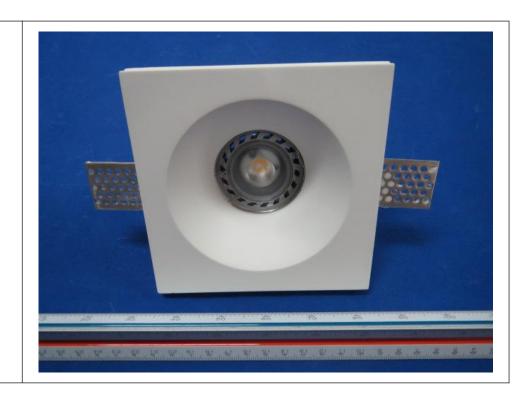


Photo 2

View:

[] Front

[√] Rear

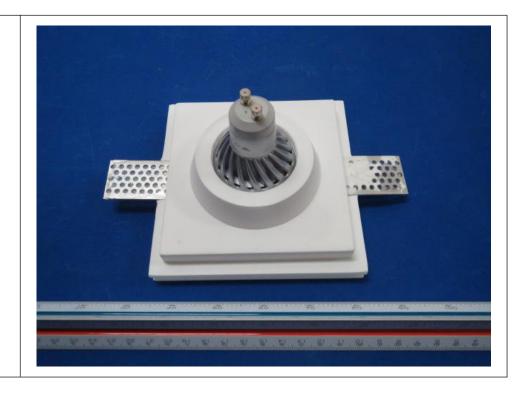
[] Right side

[] Left side

[] Top

[] Bottom

[] Internal





[]

[√]

Bottom

Internal

Report Reference No.: D00.06.0418S-R2

Photo 3 View: [] Front [] Rear [] Right side [] Left side [] Top







Photo 5		
View:		
[]	Front	88 88 88 88 88 88 88 88 88 88 88 88 88
[]	Rear	
[]	Right side	
[]	Left side	
[]	Тор	
[]	Bottom	
[√]	Internal	

---END---