

DONGGUAN VENUS OPTOELECTRONIC CO.,LTD

Report No.: BST1606414450001Y-1SR-2

PSE REPORT

Prepared For :	DONGGUAN VENUS OPTOELECTRONIC CO.,LTD				
	Huguang Rd, Jiuwei, Qishi Town, Dongguan, Guangdong, China				
Product Name:	LED BULBS				
Trade Name:	VENUSOP				
Model :	E17, E10, E11, E12, E14, E17, E26, E39, G4, G9, GY6.35, GU10, G24, 2G11, B15, MR16				
Prepared By:	Shenzhen BST Technology Co., Ltd. Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou, Nanshan District, Shenzhen, Guangdong, China.				
Test Date:	Jun. 01, 2016 - Jun. 16, 2016				
Date of Report :	Jun. 16, 2016				
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TEST REPORT IEC 62560

Luminaires

Part 1: General requirements and tests

Testing Laboratory Name:	Shenzhen BST Technology Co., Ltd.
Address	Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou, Nanshan District, Shenzhen, Guangdong, China.
Testing location	Shenzhen BST Technology Co., Ltd.
Applicant's Name:	DONGGUAN VENUS OPTOELECTRONIC CO.,LTD
Address	Huguang Rd, Jiuwei, Qishi Town, Dongguan, Guangdong, China
Manufacturer	DONGGUAN VENUS OPTOELECTRONIC CO.,LTD
Address	Huguang Rd, Jiuwei, Qishi Town, Dongguan, Guangdong, China
Test specification	
Standard:	IEC 62560:2011+A1:2015
Procedure deviation:	N/A
Non-standard test method:	N/A
Test item description	LED BULBS
Trademark:	See Page 1
Model and/or type reference:	See Page 1
Rating(s):	100-110V~, 60Hz, 20W
Test case verdicts	
Test case does not apply to the test obje	ect: N(/A)
Test item does meet the requirement	: P(ass)
Test item does not meet the requiremen	t: F(ail)



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General remarks:

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Clause numbers between brackets refer to clauses in IEC 62560.

General product information:

The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name, so, we select E17 to test.

Copy of marking plate:

LED BULBS

Model: E17

Approved & Authorized Signer:

Input: 100-110V~, 60Hz, 20W



DONGGUAN VENUS OPTOELECTRONIC CO.,LTD

Reviewer:

Engineer

Andy Yan

Supervisor

Christina / Manager



	IEC 62560		
CI.	Requirement – Test	Result	Verdict
4	General requirements and general test requirements		Р
4.1	The lamps shall be so designed and constructed that in normal use they function reliably and cause no danger to the user or surroundings.		Р
4.2	Self-ballasted LED-lamps are non-repairable, factory-sealed units. They shall normally not be opened for any tests. In the case of doubt based on the inspection of the lamp and the examination of the circuit diagram, and in agreement with the manufacturer or responsible vendor, either the output terminals shall be short-circuited or, in agreement with the manufacturer, lamps specially prepared so that a fault condition can be simulated shall be submitted for testing (see Clause 13).		P
4.3	all tests are carried out on each type of lamp or, where a range of similar lamps is involved, for each wattage in the range or on a representative selection from the range, as agreed with the manufacturer.		Р
4.4	When the lamp fails safely during one of the tests, it is replaced, provided that no fire, smoke or flammable gas is produced. Further requirements on failing safe are given in Clause 12.		Р
_	Manufacture or		
5	Marking		Р
5.1	Lamps shall be clearly and durably marked with the following mandatory markings:		P
	a) mark of origin (this may take the form of a trademark, the manufacturer's name or the name of the responsible vendor);	see page 3	Р
	b) rated voltage or voltage range (marked "V" or "volts");	100-110V~	Р
	c) rated wattage (marked "W" or "watts");	20W	Р
	d) rated frequency (marked in "Hz").	60Hz	Р
5.2	In addition, the following information shall be given by the lamp manufacturer on the lamp or immediate lamp wrapping or container or in installation instructions.		Р
	 a) Burning position, if restricted, shall be marked with the appropriate symbol. Symbol examples are shown in Annex B. 		Р
	b) rated current (marked "A" or "ampere");		Р

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9.1

Shenzhen BST Technology Co., Ltd.

Report No.: BST1606414450001Y-1SR-2 IEC 62560 CI. Requirement – Test Result Verdict c) "For lamps with a weight significantly higher than Р that of the lamps for which they are a replacement. attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lamp retention." d) Special conditions or restrictions which shall be Ρ observed for lamp operation, for example operation in dimming circuits. Where lamps are not suitable for dimming, the following symbol in Figure 1 may be used e) For eye protection, see requirements of IEC/TR Ν 62471-2 5.3 Compliance is checked by the following: Р Presence and legibility of the marking required in 5.1 – by visual inspection. The durability of the marking is checked by trying to remove it by rubbing lightly for 15 s with a piece of cloth soaked with water and, after drying, for a further 15 s with a piece of cloth soaked with hexane. The marking shall be legible after the test. Availability of information required in 5.2 – by visual inspection. 6 Interchangeability 6.1 Cap interchangeability E17 Р Р 6.2 Bending moment, axial pull and mass 7 Protection against accidental contact with live parts lamp is installed in a lampholder Р according to the relevant IEC lampholder data sheet 8 Insulation resistance and electric strength after humidity treatment Ρ 8.1 Ρ General 8.2 Insulation resistance Р 30°C, 95%R.H $>4M\Omega$ 8.3 3000V Р Electric strength 9 Mechanical strength Р

Torsion resistance of unused lamps

Р



9.2	Torsion rousage	esistance of lamps after	amps after a defined time of			N		
IEC 62560								
CI.	Requiren	quirement – Test Result					Verdict	
9.3	Repetition	n of Clause 8					Р	
10	Cap temp	perature rise	43.9K			Р		
11	Resistan	Resistance to heat					Р	
12	Resistance to flame and ignition					N		
13	Fault con	ditions					Р	
13.1	General							
13.2	Extreme	electrical conditions (dir	mmable lamps)				N	
13.3	Extreme	electrical conditions (no	n-dimmable lamps)				Р	
13.4	Short-circ	cuit across capacitors		No dangerous			Р	
13.5	Fault con	ditions across electroni	c components	No dangerous		Р		
13.6	Complian	ice				Р		
14	Creepage	e distances and clearan	Cr.>5mm, C	CI. >3mm		Р		
Annex A	(informat	formative) Overview of systems composed of LED modules and control gear .				N		
Annex B	(normativ	re) Lamps with operating	g position limitations	(see 5.2)			Р	
Table 8.2		Title: Insulating resista	ınce				Р	
Test comments		Location						
		Between	And	In:	Insulation resistance (I		ΜΩ)	
		Live parts	Mounting surface		>4MΩ			
		Live parts	Enclosure	>4MΩ				
Table 8.3 Title		Title: Electric strength					Р	
		Location						
		Between	And	Test vo	Test voltage Break		akdown	
		Live parts	Enclosure	3000V		No		

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Test comments

Shenzhen BST Technology Co., Ltd.

Parts

IEC 62560				
CI.	Requirement – Test	Result	Result	
		•		•
Table 12	Title: Glow wire test			N

Test temp. (°C)

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Results

		I	
Table 13	TABLE: tests of fault conditions		Р
Part	Simulated fault	Test voltage	Hazard
output	Short-circuit	110V	No



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ANNEX A:

Photo-documentation





Photo 1 General Appearance of the EUT

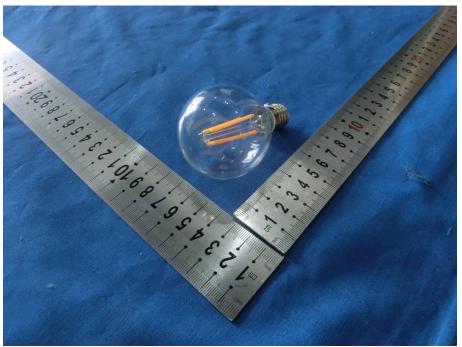


Photo 2 General Appearance of the EUT