



V-TAC EXPORTS LIMITED

IP CODE REPORT

Prepared For :	V-TAC EXPORTS LIMITED Room 301, Kam On Building 176A Queen' S Road Central, Central. Hong Kong
Product Name:	STREETLIGHT
Trade Name:	VTAC
Model :	VT-3000ST, VT-5000ST, VT-7000ST
Prepared By :	Shenzhen BST Technology Co., Ltd. 3F, Weames Technology Building, No. 10 Kefa Road, Science Park, Nanshan District, Shenzhen, Guangdong, China
Test Date:	Mar. 05-06, 2012
Date of Report :	Mar. 07, 2012
Report No.:	BST12020370Y-1ER-8



IP CODE Report EN60529 Degrees of protection provided by enclosures	
Testing laboratory	Shenzhen BST Technology Co.,Ltd.
Address	3F,Weames Technology Building,No. 10 Kefa Road, Science Park,Nanshan District,Shenzhen,Guangdong,China
Testing location	Shenzhen BST Technology Co.,Ltd.
Applicant	V-TAC EXPORTS LIMITEDCO.,LTD.
Address	Room 301, Kam On Building 176A Queen' S Road Central, Central. Hong Kong
Standard	EN60529: 1991+A1:2000
Test Result	Compliance with EN60529: 1991+A1:2000
Procedure deviation	N.A.
Non-standard test method	N.A.
Type of test object	STREETLIGHT
Trademark	VTAC
Model/type reference	VT-3000ST, VT-5000ST, VT-7000ST
Rating	-
IP CODE	IP67
Manufacturer	V-TAC EXPORTS LIMITEDCO.,LTD.
Address	Room 301, Kam On Building 176A Queen' S Road Central, Central. Hong Kong



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 : Shenzhen BST Technology Co.,Ltd.
Room 702,Zhongguan Bldg.,Liuxian Road,Nanshan District,
Shenzhen,Guangdong, China**

Prepared by :

Bella Wu

Assistant

Reviewer :

S.K. Zhang

Supervisor

Approved & Authorized Signer :





General remarks:	
<p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p>	Attached with:



EN 60529			
Clause	Requirement - Test	Result - Remark	Verdict
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral		P
5.1	Protection against access to hazardous parts		P
	First characteristic numeral is 6 --Protected against access to hazardous parts with a wire. The access probe of 1,0 mm Ø shall not penetrate		P
5.2	Protection against access solid foreign objects		P
	First characteristic numeral is 6 --Dust-tight No ingress of dust		P
6	Degrees of protection against ingress of water indicated by the second characteristic numeral		P
	Second characteristic numeral is 7 --Protected against the effects of temporary immersion in water Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time		P
10	Marking		P
	The requirements for marking shall be specified in the relevant product standard. Where appropriate, such a standard should also specify the method of marking which is to be used when - one part of an enclosure has a different degree of protection to that of another part of the same enclosure; - the mounting position has an influence on the degree of protection; -the maximum immersion depth and time are indicated.		P
11	General requirements for tests		P
11.1	Atmospheric conditions for water or dust Tests: Temperature range: Relative humidity: 25% to 75% Air pressure:		P



EN 60529			
Clause	Requirement - Test	Result - Remark	Verdict
	15 °C to 35 °C 86 kPa to 106 kPa (860 mbar to 1 060 mbar).		
11.2	Test samples The tests specified in this standard are type tests.		P
12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral		P
12.1	Access probes The test wire of 1,0 mm Ø shall not penetrate and adequate clearance shall be kept		P
12.2	Test conditions For tests on low-voltage equipment, a low-voltage supply (of not less than 40 V and not more than 50 V) in series with a suitable lamp should be connected between the probe and the hazardous parts inside the enclosure. Hazardous live parts covered only with varnish or paint, or protected by oxidation or by a similar process, are covered by a metal foil electrically connected to those parts which are normally live in operation. The signal-circuit method should also be applied to the hazardous moving parts of high-voltage equipment. Internal moving parts may be operated slowly, where this is possible.		P
12.3	Acceptance conditions :The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.		P
13	Tests for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1& 13.2	Test means & Test conditions Test means and the main test conditions are given in Table VII		P
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4 The protection is satisfactory if the full diameter of the probe specified in Table VII does not pass through any opening.		P



EN 60529			
Clause	Requirement - Test	Result - Remark	Verdict
14	Tests for protection against water indicated by the second characteristic numeral		P
14.1	Test means & Test conditions Test means and the main test conditions are given in Table VIII		P
14.2.7	<i>Test for second characteristic numeral 7: temporary immersion between 0,15 m and 1 m</i>		P
14.3	Acceptance conditions After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.8 the enclosure shall be inspected for ingress of water. It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any. In general, if any water has entered, it shall not: -be sufficient to interfere with the correct operation of the equipment or impair safety; - deposit on insulation parts where it could lead to tracking along the creepage distances; - reach live parts or windings not designed to operate when wet; - accumulate near the cable end or enter the cable if any. If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment. For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.		P



Photo:



Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT