

#### **Test Report** No. SDHG1510016688OT

Date: Nov.04, 2015

**BOLLA ENTERPRISE LIMITED** 

NO.49 ZHUANG CUN ROAD, SHA JING TOWN, BAO'AN AREA, SHENZHEN, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	: P.P. WATER RESISTANT CASE	
SGS Ref. No.	: GZES151001232331	
Style / Item No.	: WR-06,WR-07,WR-08,WR-09,WR-12,WR-13,WR-16,WR-20,WR-21	,
	WRT-22,WRT-23,WRT-26,WRT-28,WR-29C,WR-29D,WR-29E	
Date of receipt of test item	: Oct.13, 2015	
Date(s) of performance of tests	: Oct.21, 2015	

### **Test Result Summary**

Test(s) Requested	Result(s)	Comments
IP67 of IEC 60529: 1989 + A1: 1999 + A2: 2013 and EN 60529: 1991 + A1: 2000 + A2: 2013	In the opinion of SGS- CSTC the presented unit was found to be in compliance with the test specification.	/
For further details, please refer to the following page(s)		

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Irvette Zhang Approved signatory



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### Test Report No. SDHG1510016688OT Date: Nov.04, 2015 Page 2 of 15

### 1. Function / Description :

The P.P. WATER RESISTANT CASE with plastic enclosure that is fixed by fasteners.

#### Model differences:

All models are identical to each other except for model name.

#### 2. Test :

The test was done in the Electrical Safety Laboratory of SGS-CSTC in Guangzhou.

These tests fulfil the requirements of standard ISO/IEC 17025.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

IP6X test condition:

Before the test, the sample was installed according to normal using condition.

- 1. The enclosure is deemed category 1;
- 2. Depression: 2 kPa;
- 3. Extraction rate: 20 Volumes;
- 4. Test time: 8 h.

IPX7 test condition:

1. The product was immersed with the lowest point of the enclosure located 1 m below the surface of water;

- 2. Test duration: 30 min;
- 3. The water temperature does not differ from that of equipment by more than 5 K.

Possible t	test ca	ase vei	dicts:
------------	---------	---------	--------

Test case does not apply to the test object :	N/A (or N)	
Test item does meet the requirement :	P(ass)	
Test item does not meet the requirement :	F(ail)	
Testing :		
Date of receipt of test item :	2015-10-13	

Date of receipt of test item :	2015-10-13
Date(s) of performance of tests :	2015-10-21



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



No. SDHG1510016688OT

```
Date: Nov.04, 2015
```

Page 3 of 15

Clause	Requirement	Remarks	Verdict
1	Scope and object		
2	Normative reference		
3	Definitions		
4	Designations		
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral	IP67	Р
6	Degrees of protection against ingress of water indicated by the second characteristic numeral	IP67	Р
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
8	Supplementary letter		N/A
9	Examples of designations with the IP code		N/A
10	Marking		N/A
11	General test requirements		Р
12	Test for protection against access to hazardous parts indicated by the first characteristic numeral		Р
13	Test for protection against solid foreign objects indicated by the first characteristic numeral	No dust	Р
14	Test for protection against water indicated by the second characteristic numeral	No water	Р
15	Test for protection against access to hazardous parts indicated by the additional letter		N/A



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

#### Date: Nov.04, 2015

Page 4 of 15

### 3. Photo document

Details of:

Before tests





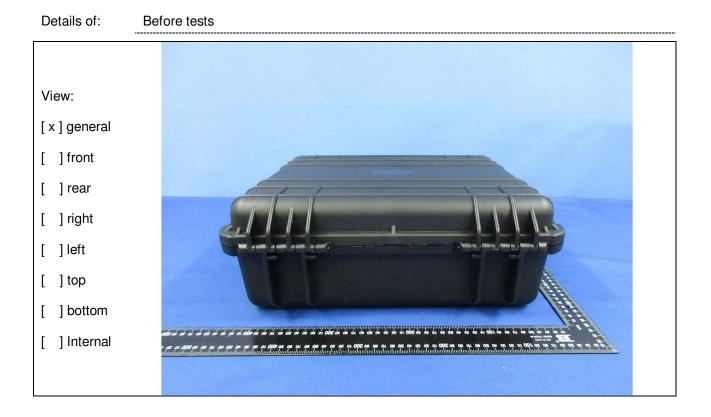
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



No. SDHG1510016688OT

Date: Nov.04, 2015

Page 5 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

Date: Nov.04, 2015

Page 6 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

### Date: Nov.04, 2015

Page 7 of 15





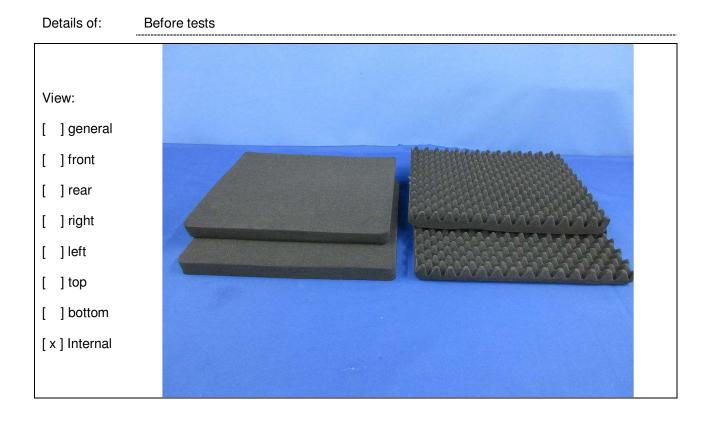
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

### Date: Nov.04, 2015

Page 8 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

### Date: Nov.04, 2015

Page 9 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

#### Date: Nov.04, 2015

Page 10 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



#### No. SDHG1510016688OT

Date: Nov.04, 2015

Page 11 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

### Date: Nov.04, 2015





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



No. SDHG1510016688OT

Date: Nov.04, 2015

Page 13 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



### No. SDHG1510016688OT

#### Date: Nov.04, 2015

Page 14 of 15





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's spot eresponsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction focuments. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



# Details of: After IPX7 test View: [] general [ ] front [] rear [] right []left [ ] top [ ] bottom

Date: Nov.04, 2015

Page 15 of 15

No. SDHG1510016688OT

#### Remark:

[x] Internal

1, This test was conducted at 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangdong Province, China.

2, According to client's statements, the Style/Item No. as stated on the first page are identical to test sample.

\*\*\*End of Report\*\*\*



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.