

# DEGREES OF PROTECTION PROVIDED BY ENCLOSURES PATTERN TEST REPORT

Test Standard : IEC 60529(2001)

Date of Receipt : 2017 / 04 / 21

Test Date : 2017 / 05 / 02 ~ 2017 / 05 / 04

Result of determination this subclass type experiment : **PASS(IP68)**

1. Issue date for test report : 2017 / 05 / 04
2. Report No : 17042103
3. Total pages : 7
4. Test report without steel stamp is not valid, and shall not be reproduced except in full.
5. Test sample is not sampling by laboratory, test result relate only to the items tested.
6. Test report is not responsible for advertisement or promotion for products.

Approved Signatory:





## **Test Report**

### **Information for test items**

Applicant : IO-Power Technology Co., Ltd.

Applicant's address : 1F., No.100, Jinzhu Rd., North Dist., Hsinchu City 30055,  
Taiwan

Manufacturer : IO-Power Technology Co., Ltd.

Manufacturer's address : 1F., No.100, Jinzhu Rd., North Dist., Hsinchu City  
30055, Taiwan

Product : Outdoor Wireless MIMO PTP MESH Backup Ring ODU

Model No. : EL-N-3

Series model : EL-N-1, EL-N-2, EL-G-1, EL-G-2, EL-G-3, EL-S-1, EL-S-2,  
EL-S-3, ML-N-1, ML-N-2, ML-N-3, ML-G-1, ML-G-2, ML-G-3,  
ML-S-1, ML-S-2, ML-S-3

(Differences in market segmentation)

Uses the place : ☐in door ☒out door

Test Standard : ☒IEC 60529 ☐IEC 60598-1

Application test rank : IP68

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### Test content

Test Levels	Test standard (IEC 60529)	Result of test	Determination
	Temperature : 25.2 °C    Humidity : 54.4 %RH		
6	Degrees of protection against access to hazardous parts and protection against solid foreign objects indicated by the first characteristic numeral		
	The test wire of 1.0 mm shall not penetrate and adequate clearance shall be kept.	Not penetrate and adequate clearance be kept.	PASS
	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not. The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.	No dust into the enclosure.	
8	Degrees of protection against water indicated by the second characteristic numeral		
	Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe then those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use.	No water into the enclosure.	PASS

### **Photo of test items**

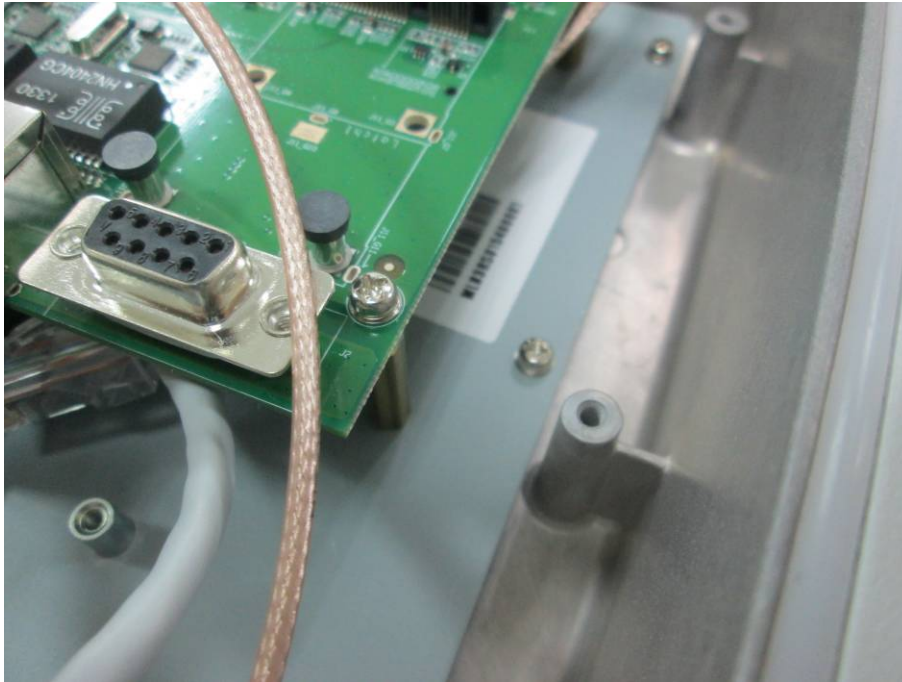
The appearance of photo



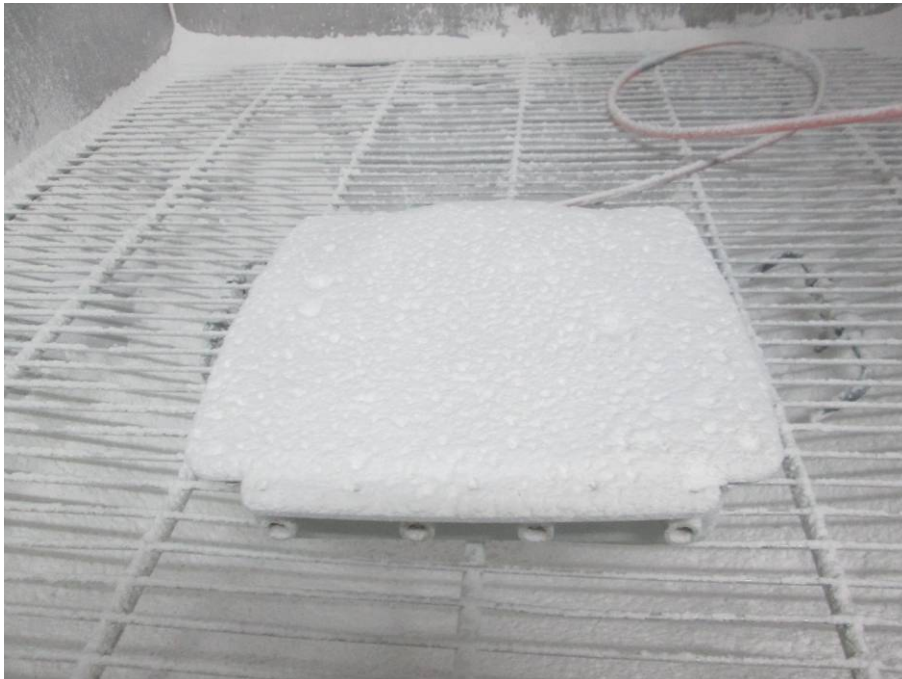
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### Photo of test items

IP6X after the test

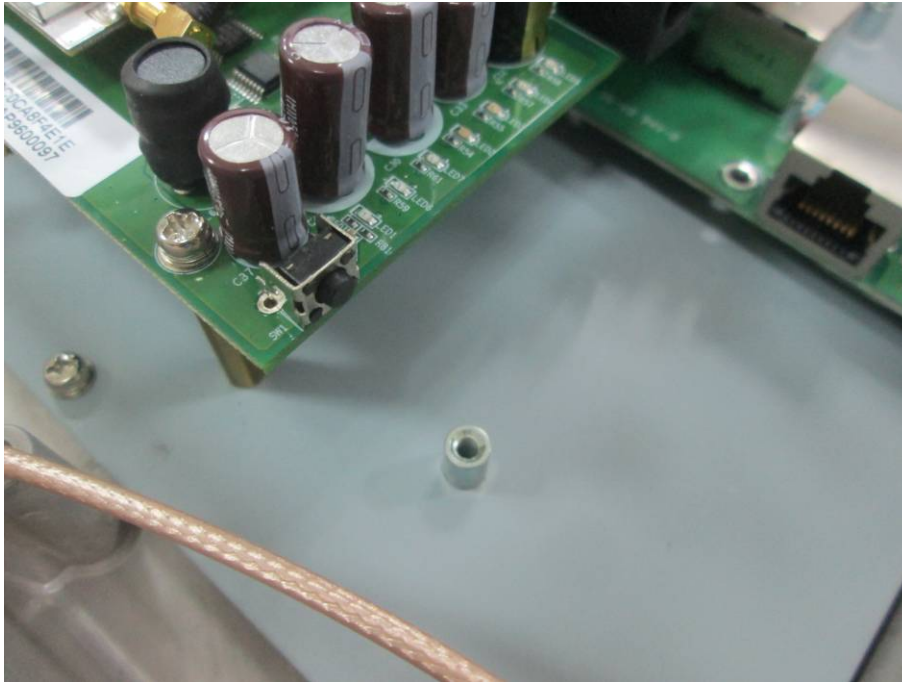


IP6X testing

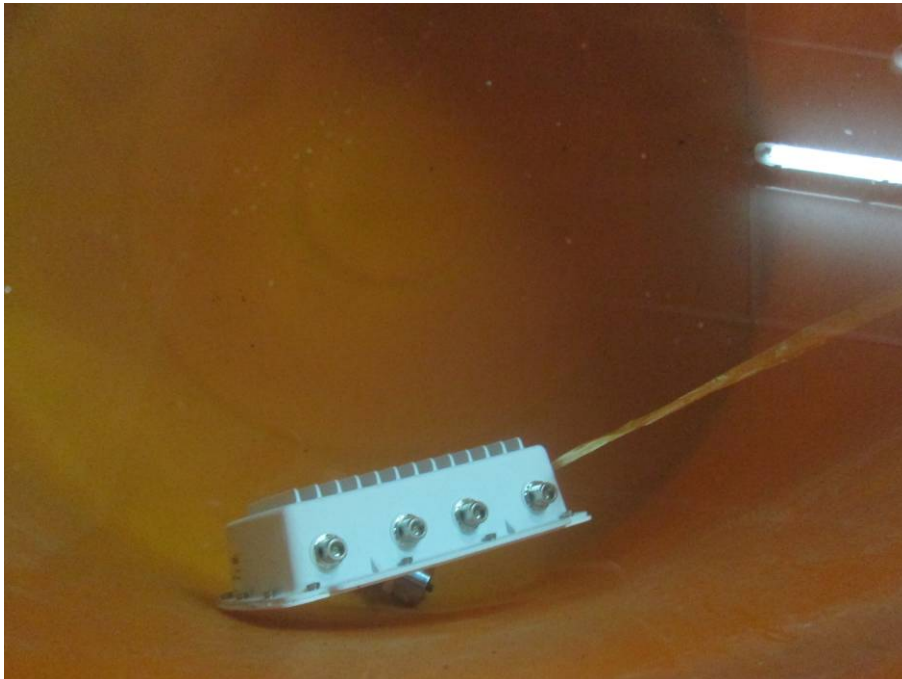


### Photo of test items

IPX8 after the test



IPX8 testing







**Equipment list and testing engineer for test**

Item	Equipment No	Equipment	Manufacturer / Type / Series No
1	99S-04	Bears the dust testing machine class dust + Floating dust	TAICHY TECHNOLOGY LTD DT-1500CF
2	99S-10	IP test touch and access wire	Shanghai Haiyue Electric / DTPP-1.0/100
3	99S-20	Bears the rain water testing machine	TAICHY TECHNOLOGY LTD RT-IEC-IPX7.8
			Testing engineers : Chun-Ting Liu

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