

# TEST REPORT

Report No.: HC30110/2012

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Date: April 11, 2012

AAEON TECHNOLOGY INC.  
5F, NO. 135, LANE 235, PAO-CHIAO RD.,  
HSIN-TIEN DIST., NEW TAIPEI CITY,  
TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

**Product Description:** Multi-Purpose & Water-Proof Panel PC  
**Style/ Item No.:** FOX-15x/ No.1  
**Manufacturer/ Vendor:** AAEON Technology Inc.  
**Country of Origin:** Taiwan  
**Quantity:** Total 1 piece  
**Testing Period:** Apr 5, 2012 to Apr. 10, 2012

We have tested the submitted sample(s) as requested and the following results were obtained:

**Test Required:** Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.1: 2001)

IP Code	IP67
<b>First characteristic numeral</b>	Degrees of protection against access to hazardous parts and against solid foreign objects
<b>Second characteristic numeral</b>	Degrees of protection against ingress of water

**Test Results:**

Conclusion
Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.1: 2001 Degrees of Protection Provided by Enclosures -- IP67 The detailed description of test result, please see attached sheet(s).

Signed for and on behalf of  
SGS TAIWAN Ltd.



Hank Chiou  
Asst. Supervisor

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Test for Degrees of Protection Provided by Enclosures:Test Equipment:

Name	Brand	Model	Serial No.
1.0 mm Test Wire Probe	ED&D	TRP-02	B0050180
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723C	T-23-050411
IPX7/IPX8 Immersion Tank	Self-made	SGS-ETR-0201	000001

Lab Environmental Conditions:Ambient temperature: 25±3°CRelative humidity: 55±20%RHTest Method/ Specification:Test method: IEC 60529 Edition 2.1: 2001--IP67**1. Test for protection against access to hazardous parts:**Test method: IEC 60529 Edition 2.1: 2001--IP6X

The test wire with 1.0 mm in diameter and 100 mm long is pushed against or inserted through any openings of the enclosure with the force specified in Table 6 in IEC 60529 Edition 2.1: 2001. Examine whether the test wire touches the hazardous live parts inside the enclosure or not.

Test force: 1 N±10 %**2. Test for protection against solid foreign objects:**Test method: IEC 60529 Edition 2.1: 2001--IP6X (Dust test)Sample condition: Non-OperatingType of dust: Talcum powderThe amount of dust: 2 kgThe chamber size: 1 m<sup>3</sup>The maximum depression: -20 mbarTest duration: 8 hours

- Examine the protection against ingress dust of specimen after this test.

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Test Method/ Specification--Continued:

**3. Test for protection against water:**

Test method: IEC 60529 Edition 2.1: 2001--IPX7

Test means: Completely immerse the specimen in water in its service position as specified by client.

Sample condition: Non-Operating

Test condition: See below items marked “●”,

●	The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water
	The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water

Test duration: 30 minutes

Test device: As shown in photo 7, 8

- Examine the protection against ingress water of specimen after this test.

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**Specimen:**

Style/ Item No.: FOX-15x/ No.1

Quantity: Total 1 piece

**Test Result:**

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP6X)

A-1 Test for protection against access to hazardous parts (IP6X)

Test Result	
Check Item	Style/ Item No
	FOX-15x/ No.1
1	Does the test wire penetrate any openings of the enclosure? No
2	(followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts? N/A
3	(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts? N/A

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001 and in accordance with the acceptance conditions specified by client.

A-2 Test for protection against solid foreign objects (IP6X)

Test Result	
Check Item	Style/ Item No
	FOX-15x/ No.1
1	Does any dust deposit inside the enclosure? No

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001 and in accordance with the acceptance conditions specified by client.

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Test Result--Continued:

B. Degree of protection against ingress of water (IPX7)

Test Result		Style/ Item No
Check Item		FOX-15x/ No.1
1	Does any water enter the enclosure?	No
2	(followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts?	N/A
2.1	(followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety?	N/A
2.2	(followed check item 2.1) Does the water deposit on insulation parts where it could lead to tracking along the creepage distances?	N/A
2.3	(followed check item 2.2) Does the water reach live parts or windings not designed to operate when wet?	N/A
<p>Note 1: N/A means "Not Applicable".</p> <p>Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001 and in accordance with the acceptance conditions specified by client.</p>		

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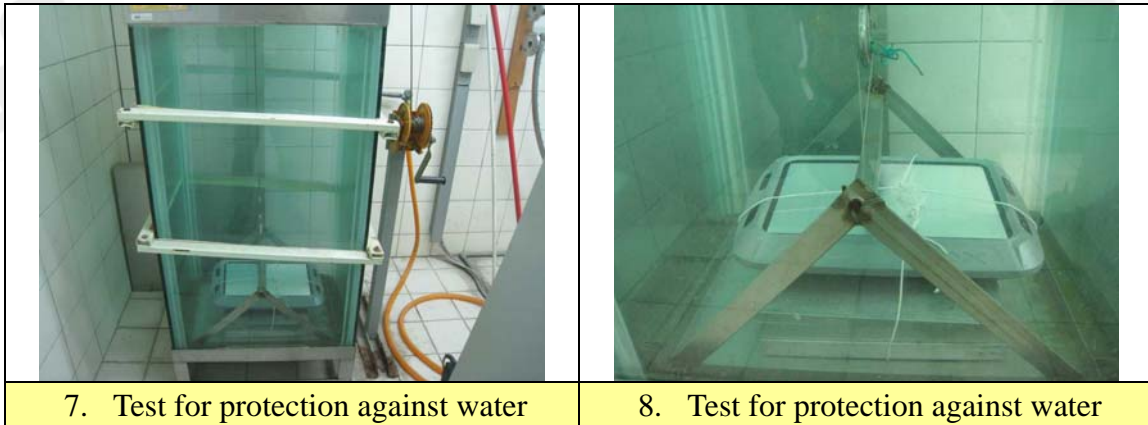


Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. Test for protection against access to hazardous parts</p>	<p>4. Test for protection against access to hazardous parts</p>
	
<p>5. Test for protection against solid foreign objects (Dust test)</p>	<p>6. Test for protection against solid foreign objects (Dust test)</p>

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Test Photos--Continued:



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