

# TEST REPORT

Report No.: HC50083/2012

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Date: May 23, 2012

AAEON TECHNOLOGY INC.  
5F, NO. 135, LANE 235, PAN-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: Stainless Panel PC  
Style/ Item No.: TF-AFP-6123HTT-A1-1010/ No.1  
Quantity: Total 1 set  
Testing Period: May 14, 2012 to May 21, 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	IP66
<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 -- IP66 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.
Dust-proof Object Test Probe	ED&D	TRP-02	B0050180
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723C	T-23-050411
IPX6 Water Jet Hose Nozzle Set	PTL	P03.28	5040045

Lab Environmental Conditions:Ambient temperature: 25±3°CRelative humidity: 55±20%RHTest Method/ Specification:Test method: IEC 60529 Edition 2.1: 2001--IP66**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)Type 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 of dust of specimen(s) 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--IPX6

Test means: Spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as specified in test standard.

Internal diameter  
of the nozzle: 12.5 mm

Delivery rate: 100 l/min ±5%

Distance from nozzle  
to enclosure surface: between 2.5 m and 3 m

Core of the substantial  
stream: circle of approximately 120 mm diameter at 2.5 m distance from nozzle

Test duration: 3 minutes (Front: 1.5 minutes, Back: 1.5 minutes)

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

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**Specimen:**

Style/ Item No.: TF-AFP-6123HTT-A1-1010/ No.1

Quantity: Total 1 set

**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.
		TF-AFP-6123HTT-A1-1010/ 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.
		TF-AFP-6123HTT-A1-1010/ 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 (IPX6)

Test Result		Style/ Item No.
Check Item		TF-AFP-6123HTT-A1-1010/ No.1
1	Does any water permeate into the specimen?	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
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 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>

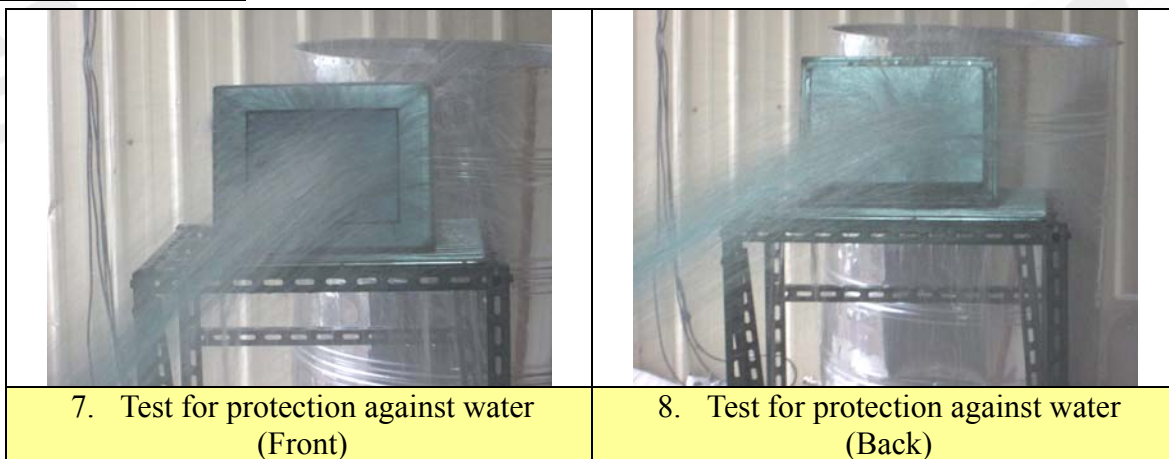
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### Test Photos--Continued:



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