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TESTING  
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# TEST REPORT

**Product Name** : Utility-Interactive Inverter  
**Model Number** : SUN-M60G4-EU-Q0/SUN-M80G4-EU-Q0/SUN-M100G4-EU-Q0

**Prepared for** : NINGBO DEYE INVERTER TECHNOLOGY CO., LTD.  
**Address** : No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China

**Prepared by** : EMTEK (NINGBO) CO., LTD.  
**Address** : No. 8, Building 8, Lane 216, Qingyi Road, High-tech Zone, Ningbo, Zhejiang, China  
Tel: (0574) 27907998  
Fax: (0574) 27721538

**Report Number** : ENB2309110160S00601R  
**Date(s) of Tests** : September 18, 2023 - September 18, 2023  
**Date of issue** : September 18, 2023



**Report No.** : ENB2309110160S00601R  
**Client** : NingBo Deye Inverter Technology Co., Ltd.  
**Address** : No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China  
**Manufacturer** : NingBo Deye Inverter Technology Co., Ltd.  
**Address** : No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China

**Sample Name** : Utility-Interactive Inverter  
**Sample Type** : SUN-M60G4-EU-Q0/SUN-M80G4-EU-Q0/SUN-M100G4-EU-Q0  
**Sample rating** : range: 40-55, rated: 42.5V, 13\*2A; Output:230V,4.4A, 1000W, 50Hz  
**Sample Received Date** : September, 12, 2023  
**Sample Tested Date** : September 18, 2023 - September 18, 2023  
**Total page** : 8 pages

**Product description** All models have the same appearance and construction

**Test Item** : IP67  
**Reference Standard** : IEC 60529:1989+A1:1999+A2:2013

**Test Results** : Pass

Inspected By: yinhua pan Date: September 18, 2023

Reviewed/Approved By: Mike Wang Date: September 18, 2023



**Test Item:** IP67

**1.1 Tested Sample:**

Sample No.	Product Name	Model/Type	Quantity
ENB2309110160S006 -1-1	Utility-Interactive Inverter	SUN-M100G4-EU-Q0	1 pcs

**1.2 Test Equipment:**

Name	Model	Serial No.	Valid Date to
Water proof grade testing machine	GT1310B	ENS-248	2024-07-05
Test Probe	JPY-316	ENS-254	2024-07-05
Dustproof test box	GT1321C	ENS-249	2024-07-05
Hygrothermograph	Cos-03	ENS-261	2024-01-02

**1.3 Environmental Conditions:** Temperature: 23.6°C, Humidity: 58%RH.

**1.4 Reference Standard:** IEC 60529:1989+A1:1999+A2:2013

**1.5 Test Conditions:**

<p>IP6X:</p> <p>Use the Φ1mm access probe to detect the opening, the force is 1N. Put the sample into the test box with each cubic meter of 2kg talc powder to start the test, test for 8 hours.</p>
<p>IPX7:</p> <p>1. The product located 1000 mm below the surface of the water; 2. The duration of the test is 30 min</p>

**1.6 Acceptance Criteria:**

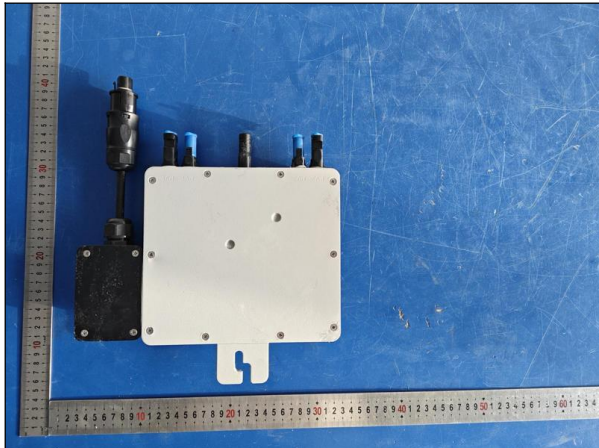
<p>IP6X:</p> <p>The test Probe cannot enter into the interior of the sample. The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.</p>
<p>IPX7:</p> <p>The sample inside allows a small amount of water to enter, but not accumulated, cannot enter the live parts.</p>

**1.7 Test Results:**

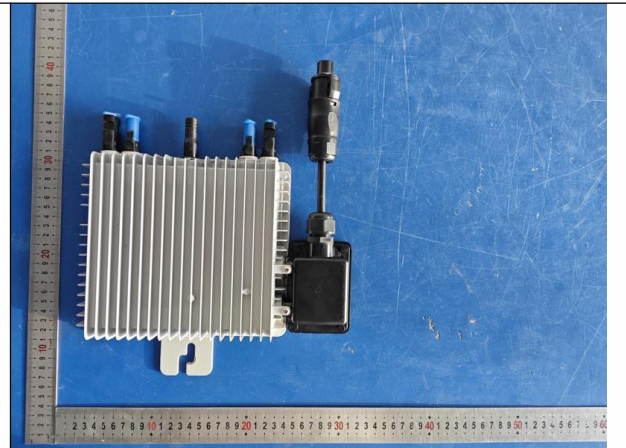
Sample No.	Test items	Test Results	Verdict
ENB2309110160S006 -1-1	Probe test	The test probe did not enter the inside of the sample.	Pass
ENB2309110160S006 -1-1	IP6X	There was no dust entered into the internal of the sample.	Pass
ENB2309110160S006 -1-1	IPX7	No water interior of the sample.	Pass



**IP6X**



Before the test



Before the test



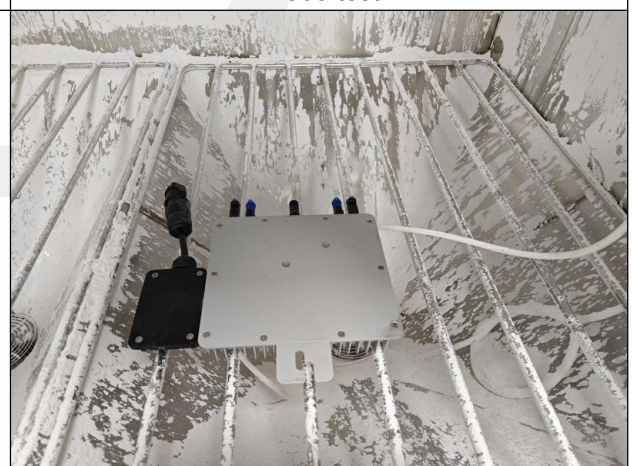
Probe test



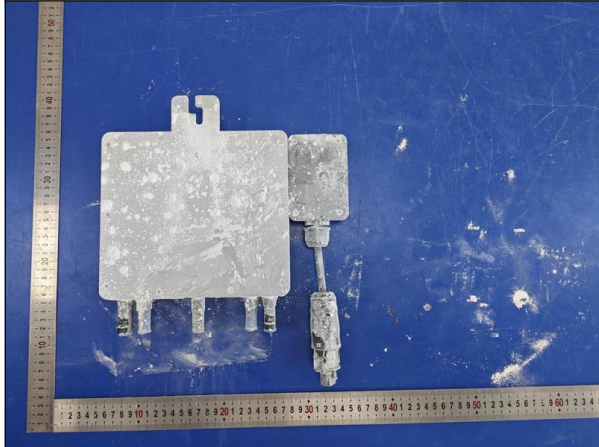
Probe test



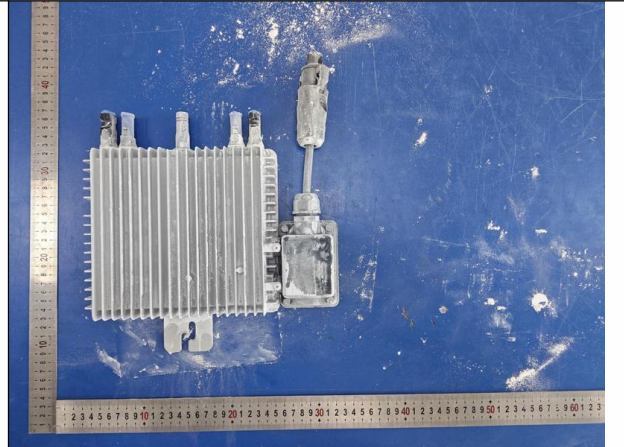
Probe test



Testing



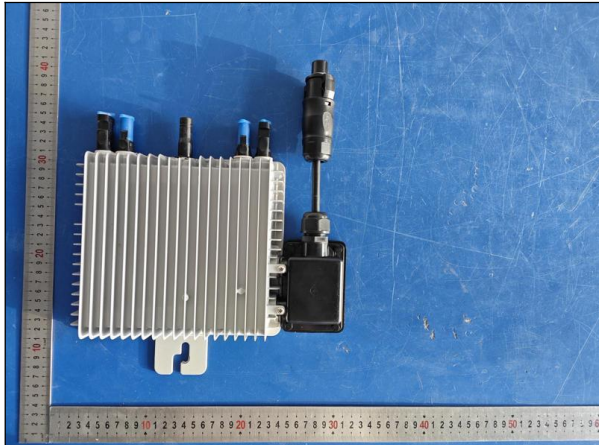
After the test



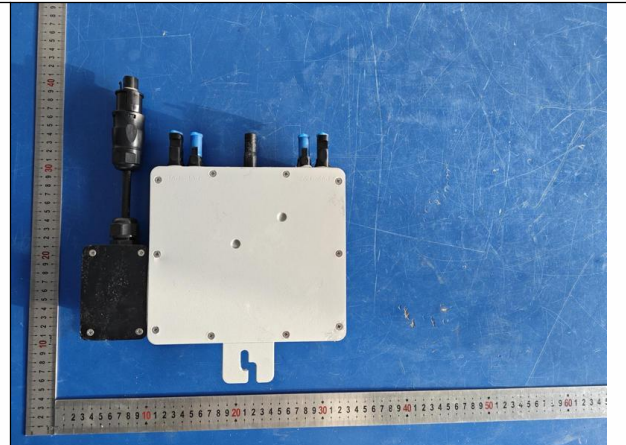
After the test



**IPX7**



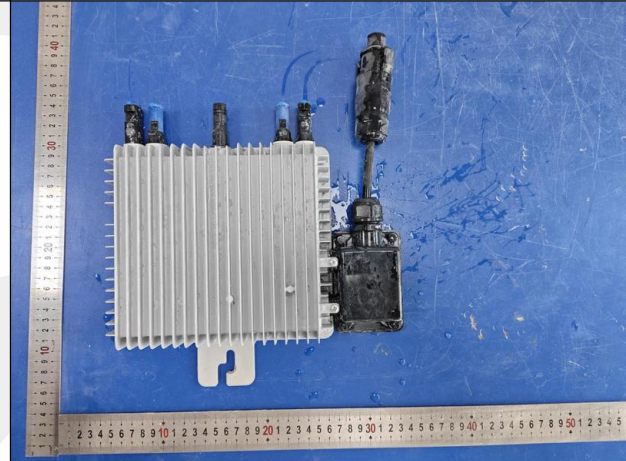
Before the test



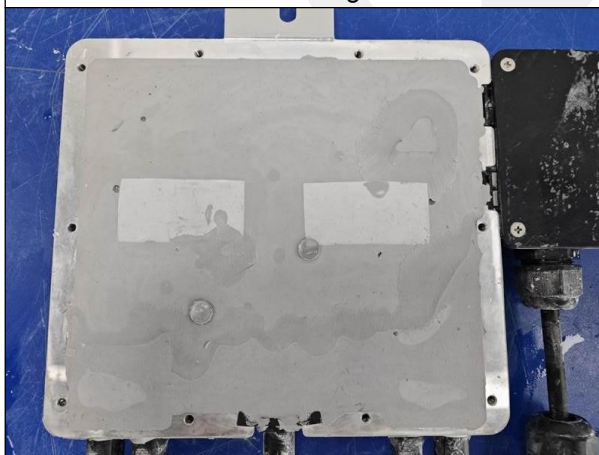
Before the test



Testing



Check after test



Check after test



Check after test

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

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