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Report No. 230731030GZU-003

TEST REPORT

Applicant: Shenzhen Growatt New Energy Co., Ltd.

Address : 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave,

Bao'an District, Shenzhen, China.

Sample Description

Name of Sample : PV Micro Inverter

Model Number: NEO 600M-X, NEO 800M-X, NEO 1000M-X

Quantity of Sample(s) : 1

Date of Receival : 31 July 2023
Date of test Conducted : 15 Aug 2023

Test

Test Requested : IP67

Test Method : Refer to IEC/EN 62109-1:2010 (First Edition) clause 6.3 (Clause 6.3 requires

the test shall be done according to IEC 60529)

Test Observation: See appendix test condition for details

Test Conclusion: : Pass
Other information : --

Remark : • This test report is only for evaluation of the specified standard clauses

listed in Test Requested.

• When determine the test result, measurement uncertainty has been

considered.

Tested by: Approved by:

Allen Fong Dason Tu

Allen Feng Jason Fu Engineer Supervisor

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Rating

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Model	NEO 600M-X	NEO 800M-X	NEO 1000M-X
Max.PV voltage	60Vdc		
MPPT voltage	28-60Vdc		
Max.input		2*18A	
current	ZIOA		
PV Isc	2*23A		
Nominal output voltage	230Vac		
Nominal output Frequency	50/60Hz		
Rated output current	2.61A	3.48A	4.35A
Max. output power	600W	800W	1000W
Max. apparent power	600VA	800VA	1000VA
Power factor range	0.8Leading~0.8Lagging		
Safety level	Class I		
Ingress Protection	IP 67		
Operation Ambient Temperature	-40°C - +65°C		
Software version	GJ1.0		

Difference of the models:

All models have identical mechanical, except the output power derating in software and hardware differences due to input and output functions.



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Appendix test condition:

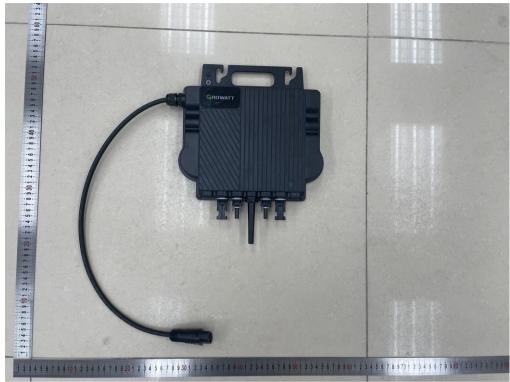
Number	Test items	Test condition	Test result
1	IP6X	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmostpheric pressure by a vacuum pump, The suction connection shall be made to a hole specially provided for the test.	No deposit of dust is observable inside the enclosure.
2	IPX7	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied: The lowest point of enclosures with a height less than 850 mm is located 1 000 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; The duration of the test is 30 min; The water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.	No water inside the enclosure



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Appendix Photos:



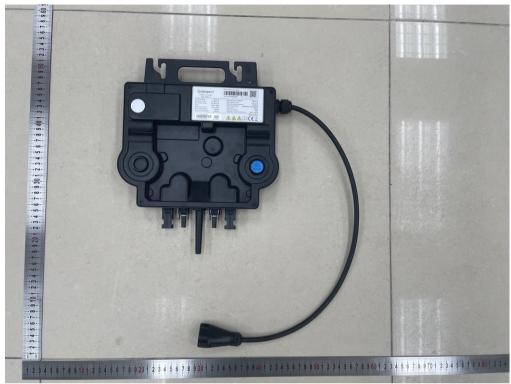
Front view

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Bottom view

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Appendix Photos:



Test setup of IP6X



Test setup of IPX6



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Appendix Photos:



Checked after test finish