

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

Report No : 220402159GZU-002 **Issue Date** : 10 Feb 2023

Sample Description

Name of Sample : Smarter AC interface
Model Number : SYN 50-XH-30, SYN 100-XH-30
Quantity of Sample(s) : 1
Date of Receival : 24 Jun 2022
Date of test Conducted : 24 Jun 2022

Test

Test Requested : IP65
Test Method : Refer to IEC/EN 62109-1:2010 (First Edition) clause 6.3
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.

***** End of page *****

Tested by:

Jason Fu

Jason Fu
Supervisor

Approved by:

Tommy Zhong

Tommy Zhong
Technical Manager

Note: This document is the property of Intertek Testing Service Shenzhen Ltd. Guangzhou Branch, and it is not transferable. Only the applicant may reproduce it. The testing of this report is type tests. The requirements and tolerances permitted by this report are related to testing of a type-test sample submitted by the manufacturer for that purpose. Compliance of the type-test sample does not ensure compliance of the whole production of a manufacturer.

Note: The testing of this report is type tests. The requirements and tolerances permitted by this report are related to testing of a type-test sample submitted by the manufacturer for that purpose. Compliance of the type-test sample does not ensure compliance of the whole production of a manufacturer.

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid.

Rating

Model	SYN 50-XH-30	SYN 100-XH-30
Nominal grid voltage	3W/N/PE, 230/400Vac	
Range of grid voltage	312-485Vac (L-L)	
Max. Grid current	63A	125A
Max.continuous grid current	50A	90A
Nominal grid frequency	50/60Hz	
Range of grid frequency	45-65Hz	
Nominal inverter voltage	3W/N/PE, 230/400Vac, 50/60Hz	
Max. continuous inverter input current	26.1A	58A
Nominal backup voltage	3W/N/PE, 230/400Vac, 50/60Hz	
Max. backup output current	26.1A	58A
Ingress protection	IP65	
Operation ambient temperature	-25°C - +50°C	

Difference of the models:

Both models are identical, except the ratings and ratings on the components

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

Tel: 86 20 8213 9688 Fax: 86 20 3205 7538 www.china.intertek-etlsemko.com

© 2016 Intertek

File No.: General-ACCE-001, date: May 2016

Appendix test condition:

Number	Test items	Test condition	Test result
<u>1</u>	IP6X	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric 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.
<u>2</u>	IPX5	Internal diameter of the nozzle: 6.3 mm Delivery rate: 12.5 L/min Core of the substantial stream: circle of approximately 40 mm diameter at 2.5 m distance from nozzle Test duration: 3 min Distance from nozzle to enclosure surface: between 2.5 m and 3 m.	No water inside the enclosure

***** End of page *****

Appendix Photos:



Test setup of IP6X



Test setup of IPX5

Appendix Photos:



Checked after test finish

*****End of report*****