

TEST REPORT

Applicant : Hitachi Hi-Rel Power Electronics Pvt. Ltd.
Address : SM 3 & 4, Sanand - II GIDC, Industrial Estate, Boll Village, Sanand
- 382 110, Gujarat, India.

Report No : 191012017GZU-001 **Issue Date** : 28 Nov., 2019

Sample Description

Name of Sample : Solar Grid Tied Inverter
Model Number : Hiverter Si-3K-H2, Hiverter Si-3.6K-H2, Hiverter Si-4K-H2, Hiverter Si-4.6K-H2,
Hiverter Si-5K-H2, Hiverter Si-6K-H2
Quantity of Sample(s) : 1
Date of Receival : 12 Oct., 2019
Date of test Conducted : 28 Nov., 2019

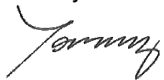
Test

Test Requested : IP65
Test Method : Refer to IEC/EN 62109-1:2010 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.

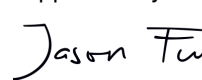
***** End of page *****

Tested by:



Tommy Zhong
Technical Manager

Approved by:



Jason Fu
Technical Team Leader

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.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, 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

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.

This report is based on the report 190826038GZU-001, dated 27 Sep., 2019 and changes the applicant, trade mark, product name and model name to apply for a new certificate.

The model Hiverter Si-3K-H2, Hiverter Si-3.6K-H2, Hiverter Si-4K-H2, Hiverter Si-4.6K-H2, Hiverter Si-5K-H2, Hiverter Si-6K-H2 in this report are same as the model W1-3KB-G3, W1-3.5K-G3, W1-4K-G3, W1-4.5K-G3, W1-5K-G3, W1-6K-G3 respectively in the report 190826038GZU-001, except the product name, model name and the trade Mark.

Rating:

Model No.	Hiverter Si-3K-H2	Hiverter Si-3.6K-H2	Hiverter Si-4K-H2	Hiverter Si-4.6K-H2	Hiverter Si-5K-H2	Hiverter Si-6K-H2
Max. PV Power	3500W	4000W	4400W	5000W	5500W	6600W
Max. DC Input Voltage	600V					
Operating MPPT Voltage Range	90-580V					
Max. Input Current	2×11A					
Max. PV Isc	2×13.2A					
Nominal Grid Voltage	230V					
Max. Output Current	13.7A	16A	18.2A	21A	22.8A	27.3A
Nominal Grid Frequency	50/60 Hz					
Output Power	3000W	3680W	4000W	4600W	5000W	6000W
Power Factor	~ 1					
Ingress Protection	IP65					
Operating Temp. Range	-25°C - +60°C					
Topology	Non isolated					
Protective Class	Class I					

All the models have the same enclosure.

Other than special notes, typical model Hiverter Si-6K-H2 is used as representative for testing in this report.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, 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:

Report No.: 191012017GZU-001



Overview



Bottom view

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

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, 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 Photos:

Report No.: 191012017GZU-001



Checked after test finish

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