

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.

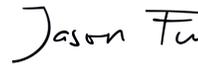
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Tested by:



Tommy Zhong
Technical Manager

Approved by:



Jason Fu
Technical Team Leader

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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

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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.

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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

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Appendix Photos:

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Overview



Bottom view

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Appendix Photos:

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Checked after test finish

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