


Test Verification of Conformity

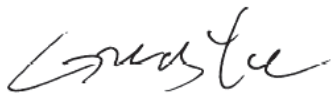
Verification Number: 180919085GZU-001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	JMHing Power Ltd Unit 10, Kelleythorpe Industrial Estate, Driffield, YO25 9DJ, United Kingdom
Product Description:	PV Hybrid Inverter
Ratings & Principle Characteristics:	See Appendix to Test Verification of Conformity
Models/Type References:	Giv-HY3.6, Giv-HY4.6, Giv-HY5.0
Brand Name(s):	
Standard(s)/Directive(s):	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Building C, 2nd Industrial Zone of Xia Shi Jia, Jiangshi Community, Gongming Sub-district, Guangming New District, Shenzhen, Guangdong, China
Test Report Number(s):	180919085GZU-001 180919085GZU-002

Additional information in Appendix.



Signature

Name: Grady Ye

Position: Manager

Date: 20 Sep., 2018

This Verification 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 Verification. Only the Client is authorized to permit copying or distribution of this Verification. 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/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 180919085GZU-001

Ratings & Principle Characteristics:

Model	Giv-HY3.6	Giv-HY4.6	Giv-HY5.0
PV Input			
Max. PV-generator power(W)	3800	5000	5400
PV-voltage range (d.c.V)	100-600	100-600	100-600
Isc PV (d.c.A)	2*20	2*20	2*20
MPPT voltage range (d.c.V)	120-550	120-550	120-550
Max. DC current (d.c.A)	2*11	2*11	2*11
Energy storage ports			
Battery rated Voltage (d.c.V)	48	48	48
Battery Voltage Range (d.c.V)	46.4-57.6	46.4-57.6	46.4-57.6
Max. battery charge/discharge current (d.c.A)	50	50	50
Max. battery charge/discharge power(W)	2500	2500	2500
Battery type	Lead-acid/Lithium	Lead-acid/Lithium	Lead-acid/Lithium
AC output			
Nominal voltage (a.c.V)	230	230	230
Max. output current (a.c.A)	16.4	21.0	22.8
Grid frequency (Hz)	50	50	50
Max. AC output apparent power (VA)	3600	4600	5000
Power factor range	0.80i to 0.80c	0.80i to 0.80c	0.80i to 0.80c
Battery Charging			
Grid Charging Voltage (a.c V)	230		
Grid Charging Frequency (Hz)	50		
Max Charging Current (a.c A)	11.0		
Other			
Inverter topology	Transformerless		
Protective class	I		
IP rating	IP 65		
Operation temp.	-25°C to +60°C		

This Verification 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 Verification. Only the Client is authorized to permit copying or distribution of this Verification. 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/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.