

## VERIFICATION OF COMPLIANCE

No.: GZES1911026499PV

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

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

Product Name: Solar Grid-tied Inverter (Single Phase Inverter)

Product Description: Inverter used in PV system

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.

Trade Mark:

Rating:

Refer to page 2

Intended Use:

PV System

Protection against Electric Shock:

Class I

Additional Information (if any):

IP 65

Firmware version: V0.22

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard:

Refer to page 2

as shown in the

Test Report Number(s):

GZES191102649901, GZES191102649902.  
GZES191102649903, GZES191102649904.

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

David Guo

Senior Technical Manager  
SGS-CSTC



2019-11-27

Copyright of this verification is owned by SGS-CSTC Standards Technical Services Co., Ltd. and may not be reproduced other than in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services, printed overleaf.

No.:

GZES1911026499PV

Other information added:  
Rating:

Product 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
<b>Input (DC)</b>						
Max.DC Input Power	3500W	4000W	4400W	5000W	5500W	6600W
Max.DC Voltage	600V					
Power Turn on	80V					
Start-up input voltage	120V					
Rated input voltage	360V					
MPPT Voltage Range	90-580V					
Full load DC voltage range	160-520V	180-520V	200-520V	230-520V	250-520V	300-520V
MAX input current per MPPT	11A/11A					
Number of DC inputs	2/2					
<b>Output(AC)</b>						
Max AC Output power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max AC Output power (PF=1)	3000W	3680W	4000W	4600W	5000W	6000W
Max AC Output Current	13.7A	16.8A	18.2A	21A	22.8A	27.3A
Nominal Grid Voltage	230Vac(Single phase)					
Nominal Frequency	50Hz					
Power factor	1(adjustable+/-0.9)					
Topology	Transformerless					
Operating temperature range	-25 °C -60 °C					
Degree of protection	IP65					

Test Standard:

IEC 60068-2-1:2007. Environmental testing. Part 2-1: Tests. Test Ae: Cold.  
IEC 60068-2-2:2007. Environmental testing. Part 2-2: Tests. Test Be: Dry heat.  
IEC 60068-2-14:2009. Environmental testing. Part 2-14: Tests. Test Nb: Change of temperature.  
IEC 60068-2-30:2005. Environmental testing. Part 2-30: Tests. Test Db-Variant 1: Damp heat, cyclic (12 h + 12 h cycle).  
IEC 61683:1999. Photovoltaics systems - Power conditioners - Procedure for measuring efficiency.  
IEC 62116:2014. Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.  
IEC 61727:2004. Photovoltaics (PV) systems - Characteristics of the utility interface.

David Guo  
Senior Technical Manager  
SGS-CSTC



2019-11-27

Copyright of this verification is owned by SGS-CSTC Standards Technical Services Co., Ltd. and may not be reproduced other than in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services, printed overleaf.

Member of SGS Group (Société Générale de Surveillance)