



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

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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
Input (DC)						
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					
Output(AC)						
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.

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