

# Certificate of Conformity

Certificate Number: 181126071GZU-001

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. This certificate is part of the full test report<s> and should be read in conjunction with it ;

Applicant Name & Address:	Havells India Ltd. QRG Towers, 2D,Sector 126, Noida Expressway, NOIDA- 201304, INDIA
Product Description:	PV inverter
Ratings & Principle Characteristics:	See Annex to Test Certificate of Conformity
Models:	enviro GT i20000T, enviro GT i17000T, enviro GT i15000T, enviro GT i10000T
Relevant Standards	IEC 60068-2-1:2007, Environmental testing – Part 2-1: Tests- Test A: Cold IEC 60068-2-2:2007, Environmental testing – Part 2-2: Tests- Test B: Dry heat IEC 60068-2-14:2009, Environmental testing – Part 2-14: Tests- Test N: Change of temperature IEC 60068-2-30:2005, Environmental testing – Part 2-30: Tests- Test Db: Damp heat, cyclic(12h +12h cycle) IEC 61683: 1999, Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
Certificate Issuing Office:	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
Date of Tests:	26 Nov., 2018 – 11 Dec., 2018
Test Report Number(s):	181126071GZU-002

Additional information in Appendix.



**Signature**

**Name: Grady Ye**

**Position: Manager**

**Date: 13 Dec 2018**

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## APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181126071GZU-001; The issuing office is Intertek Legal Entity as above.

### Ratings and principal characteristics

Maximum d.c. input voltage: 1000 V  
Input voltage rang: 250-960 V  
MPPT voltage range with full power output: 430-850 V(for enviro GT i20000T); 420-850 V (for enviro GT i17000T); 370-850 V(for enviro GT i15000T); 350-850 V(for enviro GT i10000T)  
Max. input current: 2×24 A (for enviro GT i20000T); 2×21 A (for enviro GT i17000T, enviro GT i15000T); 2×15 A (for enviro GT i10000T)  
Max. PV Isc: 2×30 A (for enviro GT i20000T); 2×27 A (for enviro GT i17000T, enviro GT i15000T); 2×20 A (for enviro GT i10000T)  
Nominal output voltage: 3/N/PE230V/400V  
Max. output current: 3×29 A (for enviro GT i20000T); 3×25 A (for enviro GT i17000T); 3×22 A (for enviro GT i15000T); 3×15 A (for enviro GT i10000T)  
Nominal frequency: 50 Hz  
Max. output power: 20000 W (for enviro GT i20000T); 17000 W (for enviro GT i17000T); 15000 W (for enviro GT i15000T); 10000 W (for enviro GT i10000T)  
Ingress protection: IP65  
Operating temperature range: -25~60°C  
Software version:V1.00

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