



# VARDHAMANA TESTING LABORATORY OPC PVT LTD

(LABORATORY IN ELECTRICAL, ELECTRONICS & PHOTOMETRY TESTING)  
Plot No.-403, Udyog Kendra-II, Ecotech-III, Greater Noida-201306 (U.P.)  
Tel. : 0120-6811256

E-mail: info@vardhamanatestlab.com , Web.: www.vardhamanatestlab.com



TC-11240

## TEST REPORT

		Format No. :VTL/FR/19	
Discipline:	Electronics & Electrical	Discipline:	Power Supplies & Stabilizers & Environmental
Location of testing performance of the Laboratory & its Address:		Vardhamana Testing Laboratory OPC Pvt. Ltd Plot No 403, Udyog Kendra Extn –II Ecotech -3, Greater Noida	
Test Specification:		As per IEC 60068-2-2: 2007 , IEC 60068-2-1: 2007 , IEC 60068-2-30 : 2005, IEC 60068 -2-14 & IEC 61683	
Report No. :	VTL/TR/2025/03/018	Issue Date :	03/05/2025
ULR NO.	TC1124025000000387F	Page No. :	1 of 8
Name & Address of Manufacturer :		Statcon Energiaa Private Limited Khasra No. -509, Block – A, Chhijarsi, Kulich Nagar Pilkhuwa, Hapur – 245304, U.P.	
Name & Address of Applicants :		Statcon Energiaa Private Limited Khasra No. -509, Block – A, Chhijarsi, Kulich Nagar Pilkhuwa, Hapur – 245304, U.P.	
<b>PART A. PARTICULARS OF SAMPLE SUBMITTED BY CUSTOMER</b>			
a) Sample Name:	HYBRID SOLAR INVERTER		
b) Sample Description (Rating/ Class/Type etc.)	48 V / 5 KVA		
c) Model Number:	BXR-HBD-048-05K-1P-06M1-11-CXX		
d) Brand Name:	Statcon Energiaa		
e) Quantity of Sample:	01		
f) Date of Receipt of Sample:	03/03/2025		
g) Date of performance of testing:	03/03/2025 to 20/03/2025		
h) Condition of sample received :	Good		
i) Environmental Conditions :	24°.1C/56 % RH		
j) Code No. / Sr. No. / Batch No. / Date of Manufacturer/ Seal & IO's sign , if any	--		
k) Any Other Information , If Any:	Nil		
<b>PART B: SUPPLEMENTARY INFORMATIONS</b>			
a) Reference to sampling procedure , wherever applicable	N/A		
b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and /or photographs , as appropriate to test report , if any (To be attached ):	See Attachment 1		
c) Deviation from the test methods as prescribed in relevant ISS/ work instructions,	N/A		



Tested By:	Approved By (Authorized Signatory):	Issued By:
Bhuwan Verma (Testing Engineer)	R.K. Srivastava(Technical Manager)	Pooja Jain (Lab Head)

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**Test Conducted:**

**( Environmental Test )**

**Dry heat test : ( IEC 60068-2-2: 2007 )**

The solar inverter was subjected for Dry heat test at  $+55^{\circ}\text{C} \pm 2^{\circ}\text{C}$  with the rate of  $1^{\circ}\text{C}/\text{min}$  for 16 hours in functional condition.

**Observation:**

After Dry Heat test solar Inverter was functioning ok.

**Cold Test : ( IEC 60068-2-1: 2007 )**

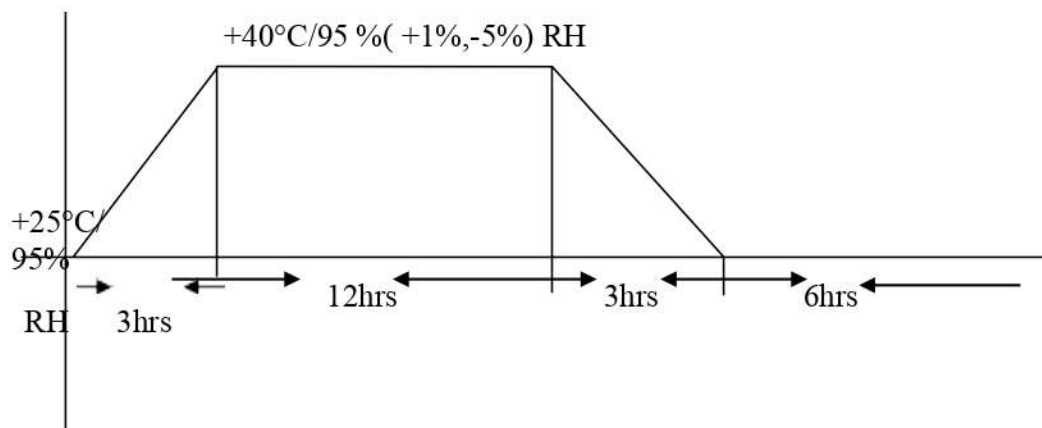
The solar Inverter was subjected for Cold Test at  $-10^{\circ}\text{C} \pm 3^{\circ}\text{C}$  with the rate of  $1^{\circ}\text{C}/\text{min}$  for 2 hours in functional condition

**Observation:**

After Cold test solar Inverter was functioning ok.

**Damp Heat Cyclic Test:( IEC 60068-2-30 : 2005 )**

After the above test the solar Inverter was subjected for Damp Heat Cyclic test for 2 cycles in Storage condition.



**Observation:**

After Damp Heat Cyclic test solar Inverter was functioning OK.



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Bhuvan Verma (Testing Engineer)	R.K. Srivastava (Technical Manager)	Pooja Jain (Lab Head)

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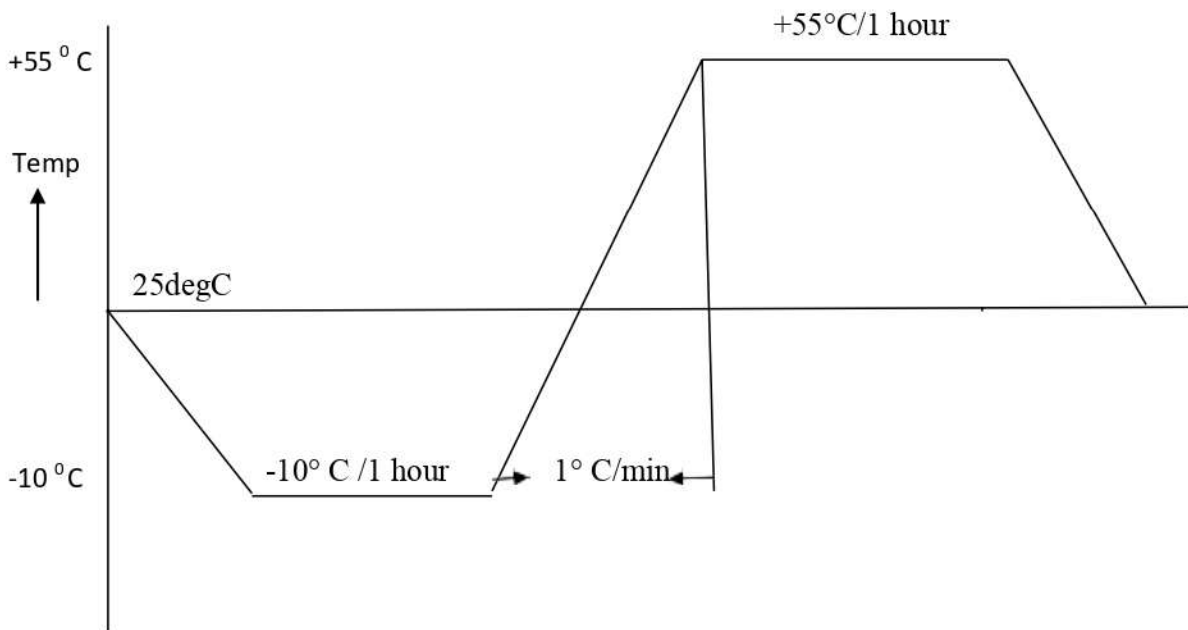
DISCIPLINE : Electronics & Electrical

Power Supplies & Stabilizers & Environmental

**Test Conducted :**

**Change in Temperature Test: ( IEC 60068 -2-14 )**

After the above test the solar Inverter was subjected to Change of Temperature Test for 5 cycles, rate of change of temp is 1° C /min, each cycle was as follows:



**Observation:**

After Change in Temperature test solar Inverter was functioning ok.



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