

Government of India
 Ministry of Communications and Information Technology
 Department of Electronics & Information Technology, Standardisation Testing & Quality Certification Directorate
ELECTRONICS REGIONAL TEST LABORATORY (EAST)

TEST REPORT ON DIGITAL SOLAR INVERTER

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1.0 SCOPE

1.1 Service Request No. : TE/0090/09-13
1.2 Test Report No. : ERTL(E)/TES/P308/0054/09-13
 Date : 26/11/2013

1.3 Requested by : **PPS ENVIRO POWER PVT. LTD.**
 (Name & Address of the organisation)
 D97-A,PHASE-1,ROAD-18
 IDA, JEEDIMETIA
 HYDERABAD 500055

1.4 Description , Identification of the item to be tested

Item	:	DIGITAL SOLAR INVERTER
Make	:	PPS ENVIRO POWER P. LTD
Model	:	PV-UP
Sl.No.	:	SEP-02
Qty.	:	1

1.4.1 Applicable Spec.of the item(s) tested:

500VA/12V

1.4.2 Characterisation and condition of the item

Characterisation	:	Not applicable /
Condition	:	Satisfactory /

1.5 Date of item receipt of item : 30/09/2013

1.6 Date of start of testing : 04/10/2013

1.6.1 Date of completion of testing : 26/11/2013

1.7 Location where testing performed : In house

1.8 Ambient condition during measurement : 25 +/- 1.5°C
70% RH. Max.

1.9 Spec. used for testing : IEC:60068-2-1,2-2,2-14,2-30,IEC:60529-12.1,13.2,14.2.1 & CUSTOMER'S SPEC.

1.9.1 Details of non-standard method followed (if any) : NIL

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REPORT ON: **DIGITAL SOLAR INVERTER**
MAKE: **PPS ENVIRO POWER P. LTD**, MODEL: **PV-UP**, SL NO: **SEP-02**

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TEST RESULT:

Sl. No.	Test of Environment	Clause No.	Quantity		Specifications Limit	Test Result	Notes
			Tested	Failed			
1.	Performance Test at 500VA Resistive load (Unity power factor) a. Output Voltage. b. Output Frequency.	Customer's Spec	1	--	a. Not specified. b. Not specified.	a. 229.05V b. 50.01Hz.	
2.	Cold Test : Temperature: -10° C. Duration: 2 hours.	IEC 60068-2-1 & Customer's Spec.	1	0	There shall be no physical deterioration.	Complied.	
3.	Performance Test at 500VA Resistive load (Unity power factor) a. Output Voltage. b. Output Frequency.	Customer's Spec	1	--	a. Not specified. b. Not specified.	a. 230.02V b. 50.02Hz.	
4.	Dry Heat Test : Temperature: + 55° C. Duration: 16 hours.	IEC 60068-2-2 & Customer's Spec.	1	0	There shall be no physical deterioration.	Complied.	
5.	Performance Test at 500VA Resistive load (Unity power factor) a. Output Voltage. b. Output Frequency.	Customer's Spec	1	--	a. Not specified. b. Not specified.	a. 229.08V b. 50.02Hz.	
6.	Temperature Cycling Test : Temperature : -5° C & +55° C. Duration at each temperature: 1hours. Rate of change of temperature :1°C/min. Total no of cycle: 5.	IEC 60068-2-14. & Customer's Spec.	1	0	There shall be no physical deterioration.	Complied.	
7.	Performance Test at 500VA Resistive load (Unity power factor) a. Output Voltage. b. Output Frequency.	Customer's Spec	1	--	a. Not specified. b. Not specified.	a. 230.02V b. 50.02Hz.	
8.	Damp Heat Cyclic Test: Temperature: +25°C to + 40°C. Humidity: 95% RH. Cycle: 12+ 12 hour. . No of cycles: 2 Recovery: 2 hours.	IEC 60068-2-30 & Customer's Spec.	1	0	There shall be no physical deterioration.	Complied.	


ASHOKE BHATTACHARYA
Scientist 'E'
Authorized Signatory.

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3.0 Equipment used

EQPT_NO	NAME	MAKE	MODEL	CAL. VALID UPTO
1173	TEMPERATURE TEST CHAMBER	VOTSCH	INDUST.VT4100	11/03/2014
1191	CLIMATIC CHAMBER	M/S VOTSCH	VC-4100	06/03/2014
1203	UNIVERSAL POWER ANALYSER	VOLTECH, UK	PM3300	07/02/2014
1232	DIGITAL MULTIMETER	AGILENT TECHNOLO	34401A	01/08/2014

Note: All tests were conducted within the validity period of respective equipment shown above.

4.0 Remarks (if any)

NIL

RELEASED BY
(signature & date)

Sona
27.11.13
SONALI JANA
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Electronics Regional Test Laboratory (ERTL)
STQC Directorate, Dept. of Info. Technology
Ministry of Comm. & Info. Technology
Government of India
Kolkata-700 091