



TC-5237



## TEST REPORT

**TUV India Pvt. Ltd,**

Anjani Palladium, 203 & 204, Second Floor And Mezzanine Floor,  
104b, Survey No.126/1, Baner Main Road, Baner, Pune 411045, Maharashtra, India.

Tel No: +(91) 20-67113113

Website : [www.tuv-nord.com](http://www.tuv-nord.com)

Report No: TUV/PTL/20-21/REL/0035

Date of issue: 22.04.2021

ULR NO: TC523721000000030F

1. Job Card No. : TUV/20-21/REL/0037
2. Job Order No. : 8118824753
3. Sample ID : TUV/PU210306-002
4. Service Requested by : **M/s. ENERTECH UPS PVT. LIMITED**  
S. No. 399/1-2, BHAREGAON, P.O. GHOTWADE,  
DIST-PUNE 412 115
5. Report Issued to : **M/s. ENERTECH UPS PVT. LIMITED**  
S. No. 399/1-2, BHAREGAON, P.O. GHOTWADE,  
DIST-PUNE 412 115

Issued By:

  
**Sneha Mandve**  
( Jr. Officer)

Date: 22.04.2021



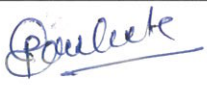
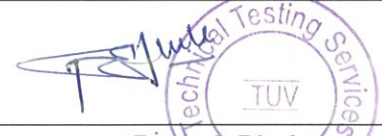

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**TUV India Private Limited**  
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Second Floor And Mezzanine  
Floor, 104B, Survey No.126/1,  
Baner Main Road, Baner,  
Pune 411045,  
Maharashtra, India  
CIN U74140MH1989PTC052930  
Tel. : 020 6647 7000  
Toll Free : 1800-209-0902  
Email : pune@tuv-nord.com  
Website : www.tuv-nord.com/in

## TEST REPORT


<b>Test Report No.:</b> TUV/PTL/20-21/REL/0035		<b>Page 1 of 6</b>
		<b>Issue date</b> 22/04/2021
<b>Test item</b>	: Solar PCU (Sunmagic +)	
<b>Model Number</b>	: -	
<b>Sample ID</b>	: TUV/PU201306-002	<b>Serial No.:</b> 202102637
<b>Condition of sample on receipt</b>	: Good	<b>Date of receipt:</b> 06/03/2021
<b>Testing laboratory and its address</b>	<b>TUV India Private Limited</b> ANJANI PALLADIUM, 203 & 204, Second Floor and Mezzanine Floor, 104B, Survey No. 126/1, Baner Main Road, Baner, Pune - 411 045, Maharashtra.	
<b>Test specification:</b>	IEC 60068-2-1: Tests- Test Ae & Ad: Cold (Operating and non-operating condition) IEC 60068-2-2: Tests- Test Be & Bd: Dry Heat (Operating and non-operating condition) IEC 60068-2-14: Tests- Test Na: Change of temperature IEC 60068-2-30: Tests-Test Db: Damp heat, cyclic (12+12h cycle)	
<b>Test Result:</b>	The test item passed / failed the test specification(s).	
<b>Other Aspects:</b>	<b>This test report relates to the test sample submitted</b>	
<b>Declaration of Conformity:</b>	Declaration of conformity of results is based on as per standard limits Or criteria.	
<b>Testing Start Date:</b> 06/03/2021		<b>Testing End Date:</b> 11/03/2021
<b>Tested by:</b>	<b>Approved by / Authorized Signatory:</b>	<b>Issued by:</b>
		
<b>Pravin Lute</b> (Test Engineer)	<b>Rupesh Dhule</b> (Sr. Test Engineer)	<b>Sneha Mandve</b> (Jr. officer)
<b>Date:</b> 22/04/2021	<b>Date:</b> 22/04/2021	<b>Date:</b> 22/04/2021



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Dated: 22/04/2021

Test item description	:	Solar PCU (Sunmagic +)
Trade Mark	:	
Ratings	:	15 kW / 15 kVA, Battery DC: 240 Vd.c, AC Input: 360 - 460Va.c, PV range: 300 – 460 Vd.c , Output: 400 Va.c.
Name of Manufacture	:	M/s. ENERTech UPS PVT. LIMITED
Address of Manufacturer	:	S. No. 399/1-2, BHAREGAON, P.O. GHOTWADE, DIST-PUNE 412 115
Photographs		See Attachment 1
<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	Testing Laboratory	TUV India Private Limited
	Testing location/ address	ANJANI PALLADIUM, 203 & 204, Second Floor and Mezzanine Floor, 104B, Survey No. 126/1, Baner Main Road, Baner, Pune - 411045, Maharashtra.
	Tested by (name + signature)	Mr. Pravin Lute (Test Engineer)
	Approved by (name + signature)	Mr. Rupesh Dhule (Sr. Test Engineer)



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**Environmental Condition:**

Environmental/ Ambient Condition		
1	Temperature	25.2°C
2	Humidity	46%

**Equipment Used:**

Test equipment list				
Item	Type	Make / Model	Equipment No. / Sl. No.	Calibration date Due
1	Climatic Test Chamber	Weiss Technik / C-1500-40	TUV/PTL/SAFTY/301	24/7/2021
2	Anemometer	Fluke 925	TUV/PTL/SAFTY/347	29/7/2021



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**Test Requirement:**

Sr. No	Test Type	Test Method	Standard	Test Specification	Test Duration
1	Cold Test	Cold Test	IEC 60068-2-1:2007 (Test Ab)	Ambient To -10°C within 35min. Temperature change rate: 1.0°C/min. -10°C Stable for 3 hrs -10°C to Ambient 35 min Stability period at ambient 1 Hr No of cycle: 1 EUT Condition: OFF	5 hrs 10 min
2	Dry Heat test	Dry Heat	IEC 60068-2-2:2007 (Test Bd)	Ambient To +55°C within 30min Temperature change rate:-1.0°C/min +55°C Stable for 17hrs +55° to Ambient within 30 min Stability period at ambient 1 Hr No. of cycle: 1 EUT Condition: OFF	19hrs
3	Change of Temperature Test	Thermal Cyclic Test	IEC 60068-2-14:2009 (Test Na)	Ambient stable for 3 min Ambient to -10°C within 18 min -10°C Stable for 3 hrs -10°C to ambient immediately Ambient to +55°C within 18 min +55°C Stable for 3 hrs +55°C to Ambient immediately Ambient stable for 3 min Stability period at ambient 1 Hr EUT Condition: OFF No. of Cycle:3	21 hrs
4	Damp Heat Test	Damp Heat	IEC 60068-2-30:2005 (Test Db)	Lower Temperature: 25 ±3°C Humidity not less than 96%RH Higher Temperature 55°C±3°C Humidity not less than 93%RH Temperature change rate:-0.18°C/min Stability period at ambient 1 Hr Exposure period: 72 Hr EUT Condition: OFF NO of Cycle:-3	73 hrs



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**Functional test:**

Before test	After Test
EUT is ON continuously after pressing start button	EUT is ON continuously after pressing start button
Display ON after powered ON	Display ON after powered ON
Measure voltage at output is 400 V	Measure voltage at output is 400 V



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**Attachment 1:  
Photographs: Equipment under Test**



Fig.1 Front view



Fig.2 : Rear View of EUT


PRODUCT :- SOLAR PCU (Sunmagic +)		QAF 1501-02
SR.NO:- 202102637	AC INPUT - 360- 460VAC	
RATING :- 15 KW / 15KVA	AC OUTPUT :- 400VAC	
BATTERY DC:- 240 VDC	FREQ. :- 50 Hz	
PV RANGE :- 300- 460VDC	DISP. DATE :- 26 - 02- 2021	
PRIORITY :-	INST. DATE :-	
 <b>ENERTECH UPS PVT. LIMITED</b> S.No. 399 / 1 2, BHAREGAON, P.O GHOTAWADI, DIST PUNE 412 115 Mob. : 9373679255, 9372623418 Email :- support@enertechups.com Web :- www.enertechups.com		

Fig.3 : Marking Plate Photograph

\*\*\*End of Report\*\*\*