

Waaree Energies Pvt. Ltd.

REPORT NUMBER: 4786171830-NABL -S1

PROJECT NUMBER: 4786171830



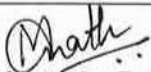
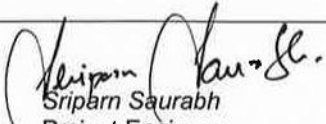
T1431, T1432, T2215,
T2216, T2233, T2234

Location (a)
UL India Lab,
UL India Pvt Limited,
Laboratory building,
Kalyani Platina
Campus, Sy.no.129/4,
EPIP Zone, Phase II,
Whitefield,
Bangalore - 560 066

TEST DISCIPLINE: ELECTRONICS**General details**

Customer	Waaree Energies Pvt. Ltd. Plot no. 231-236, Surat Special Economic Zone, Surat – 394230, Gujarat India.		
Manufacturer	Waaree Energies Pvt. Ltd. Plot no. 231-236, Surat Special Economic Zone, Surat – 394230, Gujarat India.		
Program	Customized Testing		
Test Lab Location	(a) UL Bangalore	Refer to Cover page for the Location address	
Item Under Test	Crystalline Silicon Photovoltaic Module		
Types / Models	WS-240 and WS-280		
Number of samples	6		
Sample Identification	1794913, 1794914, 1794915, 1794916, 1794917 & 1794918		
Serial Number (If any)	1794913, 1794914, 1794915, 1794916, 1794917 & 1794918		
Condition of IUT on receipt	Good		
Date of Receipt	13 January 2014		
Applicable Standard	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-11, IEC 60060-2-38 and IEC 61215.		
Date of Testing (Start date)	14 January 2014	End Date	31 January 2014
Lab general* ambient condition	Temperature in °C		23±5°C
	Relative humidity in %		<70%
Date of Reporting	31 January 2014		
Test In-charge	Pradeep N./Prathap R.		

Fill in the rows with information or add hyphen (-)

 Moumita Debnath Project Engineer Associate Reviewed by	 Sripam Saurabh Project Engineer Authorised signatory
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Disclaimer

*The results of testing in this report apply only to the sample product/item, which was tested. UL Lab has not participated in the sample selection. This Test report shall not be reproduced except in full or partial without the written approval of the Lab. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. *The applicable standard ambient condition supersedes the lab general ambient conditions.*

General Remarks (If any)

This is a Customized Testing Program and not under any regulatory program.

Description of Item under Test (IUT)

Solar Photovoltaic Module:

Model Name	Maximum Power Wp	Maximum Power Voltage (V)	Maximum Power Current (Amps)	Short Circuit Current (Amps)	Open Circuit Voltage (V)	Maximum System Voltage (V)
WS-240	240	29.0	8.23	8.89	36.0	1000
WS-280	280	35.0	8.00	8.68	43.0	1000

Reviewed by signature:

Customer Defined Test Sequence:

1. Visual Inspection - Initial
2. Maximum Power Determination (PIV test)
3. Insulation Test
4. Cold test
5. Maximum Power Determination (PIV test)
6. Insulation Test
7. Rapid change of temperature
8. Maximum Power Determination (PIV test)
9. Insulation Test
10. Dry Heat test
11. Maximum Power Determination (PIV test)
12. Insulation Test
13. Salt Mist test
14. Maximum Power Determination (PIV test)
15. Insulation Test
16. Composite humidity test
17. Maximum Power Determination (PIV test)
18. Insulation Test
19. Visual Inspection - Final

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