



Test Report

Citizen Solar Private Limited

REPORT NUMBER: 4791339502-NABL-N1

PROJECT NUMBER: 4791339502

ULR NUMBER: TC616823100000492F

LOCATION:

UL India Private Limited,
Kalyani Platina Campus,
Sy.no.129/4, EPIP Zone, Phase II,
Whitefield,
Bangalore – 560 066

QR code-





Report Number: 4791339502-NABL-N1
ULR Number: TC616823100000492F



TEST DISCIPLINE: ELECTRONICS
PRODUCT GROUP: SOLAR PANEL

General details

Customer / Applicant	Citizen Solar Private Limited New Survey No.966, Village: Indrad, Chhatral Kadi Road, Ta.Kadi, Dist. Mehsana, Gujarat-382715		
Manufacturer	Citizen Solar Private Limited New Survey No.966, Village: Indrad, Chhatral Kadi Road, Ta.Kadi, Dist. Mehsana, Gujarat-382715		
Program	NABL		
Item Under Test	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
Model	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
Number of Samples	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
UL. Sample Identification	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023	Refer Summary of Test results for multiple samples	
Manufacturer Serial Number (if any)	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
Condition of IUT on receipt	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
Date of Receipt	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		
Applicable Standard	IEC 61701 Edition 3.0, 2020-06- Photovoltaic (PV) modules – Salt mist corrosion testing (Sev-6).		
Date of Testing (Start date)	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023	End Date	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023
UL general ambient condition	Temperature in °C		(23 ±5)°C
	Relative humidity in %		<70 %
Date of Issue	3 July 2024		
Test In-charge	Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023		



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Jayalakshmi M Engineering Project Associate Reviewed by	Srimathy N Senior Project Engineer Authorized signatory
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Disclaimer

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General Remarks (If any)

This report is issued to add below mentioned models in the existing report with report reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023.

Models covered	Models Covered Under this report:
	<u>With White Backsheet:</u> 144 Half Cut Cell Series (182mm) CSPL-144MHC-WF-550, CSPL-144MHC-WF-555, CSPL-144MHC-WF-560
	<u>With Transparent Backsheet:</u> 144 Half Cut Cell Series (182mm) CSPL-144MHC-TF-550, CSPL-144MHC-TF-555, CSPL-144MHC-TF-560
	<u>With Black Backsheet</u> 144 Half Cut Cell Series (182mm) CSPL-144MHC-BF-550, CSPL-144MHC-BF-555, CSPL-144MHC-BF-560

The above listed models covered in this test report have the same construction, design and BOM as declared by the manufacturer. No testing was considered necessary to cover the listed models below. The only changes are the electrical ratings from the tested model covered under report no. 4790739969.4.1-NABL-S1 dated 31/10/2023

Summary of Test Results

Test No.	Test Item	Standard references, clause	Result
1	Visual inspection	IEC 61215, Ed.1, 2016-03, MQT 01	Refer Report Reference No. 4790739969.4.1- NABL-S1 dated 31/10/2023.
2	Maximum power determination (before Initial stabilization)	IEC 61215, Ed.1, 2016-03, MQT 02	
3	Initial stabilization	IEC 61215, Ed.1, 2016-03, MQT 19.1	
4	Maximum power determination	IEC 61215, Ed.1, 2016-03, MQT 02	
5	Insulation test	IEC 61215, Ed.1, 2016-03, MQT 03	
6	Wet leakage current test	IEC 61730-2-2016, Ed.2, 2016-08, MST 17	
7	Continuity test of equipotential bonding	IEC 61730-2-2016, Ed.2, 2016-08, MST 173	
8	Salt Mist Test (Severity-6)	IEC 61701, 2020, IEC 60068-2-52, Ed.3, 2017-11	
9	Cleaning and recovery	-	
10	Visual inspection	IEC 61215, Ed.1, 2016-03, MQT 01	
11	Maximum power determination	IEC 61215, Ed.1, 2016-03, MQT 02	
12	Insulation test	IEC 61215, Ed.1, 2016-03, MQT 03	



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Test No.	Test Item	Standard references, clause	Result
13 W	et leakage current test	IEC 61730-2-2016, Ed.2, 2016-08, MST 17	Refer Report Reference No. 4790739969.4.1- NABL-S1 dated 31/10/2023
14	Continuity test of equipotential bonding	IEC 61730-2-2016, Ed.2, 2016-08, MST 173	
15 B	ypass diode testing I	EC 61215, Ed.1, 2016-03, MQT 18	

P: Meets the requirements F: Does not meet the requirement NA: Not applicable

Note: For Master Equipment and Calibration details, Test sample description, Sample general information sample identification, Testing and Test Program and Product pictures, Bill of Materials Refer Report Reference No. 4790739969.4.1-NABL-S1 dated 31/10/2023

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

UL India Private Limited
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Page 5 of 5

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STATEMENT OF COMPLIANCE

The product Photovoltaic Module has been tested by UL India Private Limited and found to comply in accordance with the Standard indicated in this report.

Project Number: 4790739969.4.1

Report Number: 4790739969.4.1-NABL-S1 Dated 31 October 2023

Test Location: UL India Pvt Ltd, Bangalore

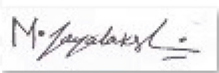
Issued to: Citizen Solar Private Limited
New Survey No.966, Village: Indrad, Chhatral Kadi Road,
Ta.Kadi, Dist. Mehsana, Gujarat-382715.

Tested Model: CSPL-144MHC-WF-545 (Tested Model)
(Refer to Report No. 4790739969.4.1-NABL-S1 for BOM and Test details)

Models Covered*: Mono Crystalline PV module with maximum system voltage of 1500V
With White Backsheet:
144 Half Cut Cell: CSPL-144MHC-WF-XXX(XXX=520~560, xxx stands for power, in steps of 5W
132 Half Cut Cell: CSPL-132MHC-WF-XXX, (XXX=480~495, xxx stands for power, in steps of 5W
120 Half Cut Cell: CSPL-120MHC-WF-XXX, (XXX=435~450, xxx stands for power, in steps of 5W
108 Half Cut Cell : CSPL-108MHC-WF-405, (XXX=390~405, xxx stands for power, in steps of 5W
With Transparent Backsheet:
144 Half Cut Cell: CSPL-144MHC-TF-XXX(XXX=520~560, xxx stands for power, in steps of 5W
132 Half Cut Cell: CSPL-132MHC-TF-XXX, (XXX=480~495, xxx stands for power, in steps of 5W
120 Half Cut Cell: CSPL-120MHC-TF-XXX, (XXX=435~450, xxx stands for power, in steps of 5W
108 Half Cut Cell : CSPL-108MHC-TF-405, (XXX=390~405, xxx stands for power, in steps of 5W

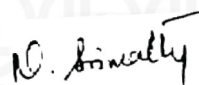
Disclaimer: Test results apply only to the sample(s) actually tested by UL India Private Limited or its vendor. The client provided all of the test samples for testing by UL. UL did not select the samples or determine whether the samples provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The client and or manufacturer are solely and fully responsible for conformity of all products to all applicable standards, specifications or requirements. UL Logo and Marks shall not be used in connection with the above tested product(s). Only those products bearing the UL Listing and Classification Marks should be considered as being covered by UL's Listing, Classification and Follow-Up Service. Look for the UL Listing and Classification Mark on the product.

Issued By:



Jayalakshmi M
UL India Private Limited

Authorized By



N Srimathy
UL India Private Limited

With Black Backsheet

144 Half Cut Cell: CSPL-144MHC-BF-XXX(XXX=520~545, xxx stands for power, in steps of 5W

132 Half Cut Cell: CSPL-132MHC-BF-XXX, (XXX=480~495, xxx stands for power, in steps of 5W

120 Half Cut Cell: CSPL-120MHC-BF-XXX, (XXX=435~450, xxx stands for power, in steps of 5W

108 Half Cut Cell : CSPL-108MHC-BF-405, (XXX=390~405, xxx stands for power, in steps of 5W

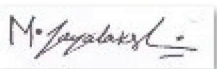
Standard(s): IEC 61701 Edition 3.0, 2020-06- Photovoltaic (PV) modules – Salt mist corrosion testing (Sev-6).

Test Condition: as per standard above

* Manufacturer declares that samples submitted for evaluation are representative of the covered models and produced using the same materials, components, equipment, and processes. Details of the bill of materials are provided in the test report. Any change in design, materials, components, equipment, and processes may require retesting to maintain compliance.

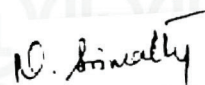
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