



# URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5, Noida-201301  
 T +91 (120) 4516264-65 F +91 (120) 4750296  
 E info@urs-labs.com W www.urs-labs.com  
 CIN NO U21014UP1987PTC008956



TC-6468


## TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/24-25/1661	DATE OF ISSUE:	23/05/2024
ULR NUMBER	ULR-TC646824100003399F		

NAME OF LABORATORY:	URS PRODUCTS AND TESTING PRIVATE LIMITED		
ADDRESS OF LABORATORY:	A-29, Sector 5, Noida-201301, India		
TESTING LOCATION:	A-29, Sector 5, Noida-201301, India		

CUSTOMER NAME:	ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED		
CUSTOMER ADDRESS:	PH. NO. 09, GRAM- DIGHARI, MANDIR HASAUD, TEH ARANG, CHHATTISGARH, RAIPUR-492001.		

### TEST ITEM DESCRIPTION

PRODUCT NAME:	SOLAR PV MODULE		
DATE OF RECEIPT	18/04/2024	SAMPLE CONDITION:	ok
RECEIPT NUMBER	URS/LAB/PID/24-25/BD919BC0	NO. OF SAMPLE	3
TRADE MARK		SERIAL NUMBER	See page no.6
MODEL	Lead Model Tested: ISEN620N-TOP Series Model: Family Name (156 Half Cut cell) ISEN620N-TOP, ISEN615N-TOP, ISEN610N-TOP, ISEN605N-TOP, ISEN600N-TOP Family Name (144 Half Cut cell) ISEN590N-TOP, ISEN585N-TOP, ISEN580N-TOP, ISEN575N-TOP, ISEN570N-TOP, ISEN565N-TOP, ISEN560N-TOP Family Name (132 Half Cut cell) ISEN540N-TOP, ISEN535N-TOP, ISEN 530N-TOP, ISEN525N-TOP, ISEN520N-TOP Family Name (120 Half Cut cell) ISEN500N-TOP, ISEN495N-TOP, ISEN490N-TOP, ISEN485N-TOP, ISEN480N-TOP, ISEN475N-TOP, ISEN470N-TOP , ISEN465N-TOP, ISEN460N-TOP Family Name (108 Half Cut cell) ISEN440N-TOP, ISEN435N-TOP, ISEN430N-TOP, ISEN425N-TOP, ISEN420N-TOP		
RATINGS/SPECIFICATION	See the marking Label (Page no. 04)		
NAME OF MANUFACTURER	ICON SOLAR-EN POWER TECHNOLOGIES PVT. LTD.		
ADDRESS OF MANUFACTURER	PH. NO. 09, GRAM- DIGHARI, MANDIR HASAUD, TEH ARANG, CHHATTISGARH, RAIPUR-492001.		

### TEST SPECIFICATION

TEST METHOD / STANDARD	IEC TS 62804-1:2015		
TEST START DATE	18/04/2024	TEST END DATE	23/05/2024
ENVIRONMENTAL CONDITIONS	85°C, and 85%RH		

### CONCLUSION

TEST RESULT	The test result Conforms to the requirement of the standard/test protocol based on the obtained test values/results mentioned in this test report.
REMARK	Compliance statement in this report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8.

TESTED BY



Vikas

Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASUBHARASWAR  
Lab Manager

ISSUED BY

Paras Singh  
General Manager

Note:

1. This test report is valid only for the sample(s) tested in our laboratory. 2. The test report is not permitted to be duplicated/reproduced in part or in extract in any circumstances. 3. URS lab is not responsible for authenticity of photocopied or reproduced test report. 4. The test results reported in this report are valid at the time of and under the stated conditions of measurements. 5. The remnant(Tested Samples)shall be destroyed after 07days from the date of testing unless specified otherwise in writing. 6. Any correction/erasure shall invalidate the test report. 7. This test report pertains to the test(s) carried out as requested by the customer. 8. This test report shall not be utilized for any legal purpose and shall not be produced in the court of law & no responsibility would be attached to URS Lab 9. URS reports, in general, are formally released in soft copy through reports@urs-labs.com , client portal, unless client will specifically request with sign & stamped letter with the intent to issue test reports in hard copy form. URS will not acknowledge for the reports said to be released through other means such as what's app. Test Reports for specific schemes such as BIS CRS/LRS schemes, are issued as per specific scheme requirements.

URS/TEE/F/19 Issue No. 05




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<b>TEST REPORT</b>	
<b>IEC TS 62804 -1: 2015</b>	
<b>Photovoltaic (PV) modules – Test methods for the detection of potential – induced degradation – Part 1: crystalline silicon</b>	
Report Reference No.....:	URS/LAB/02/RID/24-25/1661
Date of issue.....:	23/05/2024
Total number of pages.....:	16
Testing Laboratory.....:	URS PRODUCTS AND TESTING PRIVATE LIMITED
Address.....:	A-29, Sector 5, Noida-201301, India
Applicant's name.....:	ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED
Address.....:	PH. NO. 09, GRAM- DIGHARI, MANDIR HASAUD, TEH ARANG, CHHATTISGARH,
Test specification.....:	RAIPUR-492001.
Standard.....:	IEC TS 62804 -1: 2015
Test item description.....:	Solar PV Module
Trade Mark/Brand.....:	
Manufacturer.....:	ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED
Factory.....:	PH. NO. 09, GRAM- DIGHARI, MANDIR HASAUD, TEH ARANG, CHHATTISGARH, RAIPUR-492001.
Model/Type reference.....:	<b>Lead Model Tested: ISEN620N-TOP</b> Series Model: Family Name (156 Half Cut cell) ISEN620N-TOP, ISEN615N-TOP, ISEN610N-TOP, ISEN605N-TOP, ISEN600N-TOP Family Name (144 Half Cut cell) ISEN590N-TOP, ISEN585N-TOP, ISEN580N-TOP, ISEN575N-TOP, ISEN570N-TOP, ISEN565N-TOP, ISEN560N-TOP Family Name (132 Half Cut cell) ISEN540N-TOP, ISEN535N-TOP, ISEN 530N-TOP, ISEN525N-TOP, ISEN520N-TOP Family Name (120 Half Cut cell) ISEN500N-TOP, ISEN495N-TOP, ISEN490N-TOP, ISEN485N-TOP, ISEN480N-TOP, ISEN475N-TOP, ISEN470N-TOP , ISEN465N-TOP, ISEN460N-TOP Family Name (108 Half Cut cell) ISEN440N-TOP, ISEN435N-TOP, ISEN430N-TOP, ISEN425N-TOP, ISEN420N-TOP
Ratings.....:	Maximum System Voltage: 1500V, Maximum over-current protection rating: 30A See copy of Marking label and General product information.

Vikas



Vikas  
Analyst



NILESH BALASUBH ASWAR  
Lab Manager

Paras Singh  
General Manager



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ULR: ULR-TC646824100003399F

CUSTOMER NAME: ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED

CUSTOMER CITY:RAIPUR

Summary of testing:	
Tests performed (name of test and test clause):	URS PRODUCTS AND TESTING PRIVATE LIMITED A-29, Sector-5, Noida-201301
Preconditioning	
10.1 Visual Inspection (Initial)	
10.2 Maximum Power Determination (Initial)	
10.15 Wet leakage current test (Initial)	
MST Ground Continuity Test	
PID stress test method (a) 3 cycles (1 cycle = 96h)	
10.2 Maximum Power Determination (Final)	
10.15 Wet leakage current test (Final)	
10.1 Visual Inspection (Final)	

Vikas



Vikas  
Analyst



NILESH BALASAHIB ASWAR  
Lab Manager



Paras Singh  
General Manager



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CUSTOMER NAME: ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED

CUSTOMER CITY:RAIPUR

### Copy of Marking Plate

(Model No. Tested: ISEN620N-TOP)

 EN-ICON ICON SOLAR-EN POWER TECHNOLOGIES PVT. LTD. Factory Address- PH No.09, Gram Dighari, Mandir Hasaud, Teh Arang, Raipur 492001, Chhattisgarh, India Tel: +91 771-4065755 <small>ELECTRICAL INSTRUMENT MEASURED AT STC</small>	Model No	: ISEN620N-TOP	Dimension (L x W x H)	: 2464 x 1134 x 35 mm	 <b>WARNING</b> ELECTRICAL HAZARD
	Pmax (W)	: 620 Wp ± 2%	System Voltage	: 1500 V	
Voc (V)	: 55.65 V	Vmp (V)	: 46.75 V	Series Fuse Rating	: 30 A
Isc (A)	: 14.06 A	I <sub>max</sub> (A)	: 13.27 A	Application Class	: CLASS A
				Safety Class	: CLASS II
				Fire Safety Class	: CLASS C



### Polarity marking on Junction Box



### Polarity marking on Connectors



TESTED BY



Vikas

Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR  
Lab Manager

ISSUED BY

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General Manager



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General Product Information:	
PV module type reference.....	ISEN620N-TOP
<u>Product Electrical Ratings at STC</u>	
Nominal maximum power (Pmax).....	620W
Nominal open circuit voltage at (Voc).....	55.65V
Nominal short circuit current at (Isc).....	14.06A
Nominal maximum power voltage (Vpm).....	46.75V
Nominal maximum power current (Ipm).....	13.27A

<u>Product Safety Ratings</u>	
Maximum system voltage.....	1500V
Maximum over-current protection rating.....	30A
Safety application class.....	A
Safety class in accordance with IS 61140.....	II
Fire safety class.....	Class C
Recommended maximum series/parallel module configurations.....	Maximum number of modules in series depends on the system design, type of inverter used on and environment condition.

Module group assignment:		
Model	Sample #	Sample No. & Serial number
ISEN620N-TOP	1	1 & ICON620T1003181030
	2	2 & ICON620T1003181029
	3	3 & ICON620T1003181027

TESTED BY



AUTHORIZED SIGNATURE



ISSUED BY



Vikas  
Analyst

NILESH BALASAHU ASWAR  
Lab Manager

Paras Singh  
General Manager



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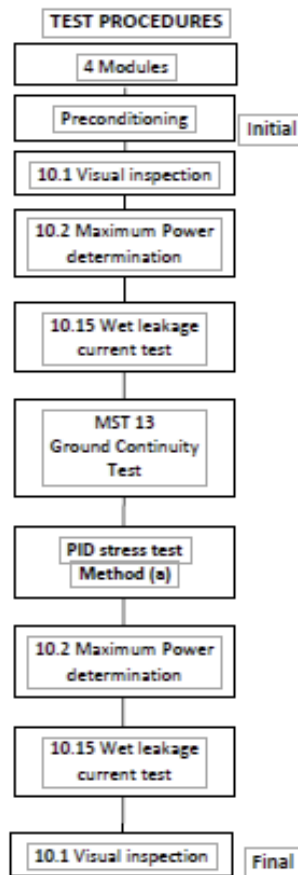
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## 10 TEST PROCEDURES



TESTED BY



Vikas

Vikas Analyst

AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR Lab Manager

ISSUED BY

Paras Singh General Manager



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Clause	Requirement + Test	Result-Remark	Verdict
4	MARKING		P
	Name, monogram or symbol of manufacturer.....:	ICON SOLAR-EN POWER TECHNOLOGIES PVT. LTD. 	P
	Type or model number.....:	ISEN620N-TOP	P
	Serial number.....:	Marked	P
	Polarity of terminals or leads.....:	Marked	P
	Maximum system voltage.....:	1500V	P
	The date and place of manufacture.....:	Marked	P
	Initial examination	All Modules	-
10	Preconditioning.....:	5.0 kWh/m <sup>2</sup>	P
10.1	Visual inspection.....:	See table 10.1 Initial	P
10.2	Maximum power determination.....:	See table 10.2 Initial	P
10.15	Wet leakage current test.....:	See table 10.15 Initial	P
MST 13	Ground continuity test.....:	See table MST 13 Initial	P
4.3.2	PID stress test method (a).....:	See table PID stress test method (a)	P
10.2	Maximum power determination.....:	See table 10.2 Final	P
10.15	Wet leakage current test.....:	See table 10.15 Final	P
10.1	Visual inspection.....:	See table 10.1 Final	P

TESTED BY



AUTHORIZED SIGNATURE



ISSUED BY

Vikas  
Analyst

NILESH BALASAHIB ASWAR  
Lab Manager

Paras Singh  
General Manager



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Clause	Requirement + Test	Result-Remark	Verdict
<b>10.1 Initial</b>	<b>TABLE: Visual inspection (Initial)</b>		P
Test Date [MM/DD/YYYY].....:	04/22/2024		-
Sample #	Nature and position of initial findings – comments or attach photos		-
1	No visual defect		P
2	No visual defect		P
3	No visual defect		P
Supplementary information: All the modules undergoes the preconditioning before testing.l			

<b>10.2 Initial</b>	<b>TABLE: Maximum power determination (Initial)</b>					P
Test Date [MM/DD/YYYY].....:	04/22/2024					-
Module temperature [°C].....:	25					-
Irradiance [W/m <sup>2</sup> ].....:	1000					-
Sample#	Voc[V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF[%]
1	55.62	46.74	14.03	13.28	620.71	79.54
2	55.64	46.75	14.05	13.26	620.09	79.32
3	55.63	46.72	14.04	13.27	619.97	79.38
Supplementary information: Nil						

TESTED BY

Vikas

Vikas  
Analyst



AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR  
Lab Manager

ISSUED BY

Paras Singh  
General Manager





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10.15 Initial		TABLE: Wet leakage current test (Initial)		P
Test Date [MM/DD/YYYY].....:		04/22/2024		-
Test Voltage applied [V].....:		1500		-
Solution resistivity [ $\Omega$ cm].....:		<3500 at 22 $\pm$ 3°C	2491	-
Surface tension [ $\text{Nm}^{-1}$ ].....:		<0.03 at 22 $\pm$ 3°C	-	-
Solution temperature [°C].....:		24.0		-
Sample#	Measured[G $\Omega$ ]	Limit[M $\Omega$ ]		Result
1	5.62	14.34		P
2	5.25	14.34		P
3	5.47	14.34		P
Supplementary information: Area of module 2.79 [m <sup>2</sup> ].				

10.4 Initial		TABLE: Ground Continuity Test - MST 13 (Initial)		P
Test Date [MM/DD/YYYY].....:		04/22/2024		-
Maximum system voltage [V <sub>dc</sub> ].....:		1500V		-
Current applied [A].....:		75		-
Location of designated grounding point.....:		Ground holes on the sides of the frame		-
Location of second contacting point.....:		Greatest physical displacement from the grounding point.		-
Sample No.	Voltage [V <sub>dc</sub> ]	Resistance [m $\Omega$ ]		
1	0.35	4.667		P
2	0.33	4.400		P
3	0.37	4.933		P
Supplementary information: Nil				

TESTED BY



AUTHORIZED SIGNATURE



ISSUED BY



Vikas  
Analyst

NILESH BALASAHU ASWAR  
Lab Manager

Paras Singh  
General Manager



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Clause	Requirement + Test	Result-Remark	Verdict
<b>6.9.2</b>	<b>TABLE: Potential Induced Degradation Test</b>		P
Test Date [MM/DD/YYYY].....:	04/23/2024 to 05/06/2024		-
Test Condition.....:	Method A		-
Duration.....:	288 hrs (for 3 cycles of 96 hrs)		-
Sample#	-	-	Result
1	1500	-	P
2	1500	-	P
3	1500	-	P
Supplementary information: Area of module 2.63 [m <sup>2</sup> ].			

<b>10.2 Final</b>	<b>TABLE: Maximum power determination After PID Test</b>							P
Test Date [MM/DD/YYYY].....:	05/07/2024							-
Module temperature [°C].....:	25							-
Irradiance [W/m <sup>2</sup> ].....:	1000							-
Sample#	Voc[V]	Vmp[V]	Isc[A]	Imp[A]	FF[%]	Pmp [W]	Degradation [%]	Limit[%]
1	55.29	46.53	13.95	13.15	611.87	79.33	-1.42	-5
2	55.23	46.48	13.97	13.11	609.35	78.98	-1.73	-5
3	55.15	46.41	13.92	13.16	610.76	79.56	-1.49	-5
Supplementary information: Nil								

TESTED BY

Vikas

Vikas  
Analyst



AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR  
Lab Manager

ISSUED BY

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General Manager



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10.15 Final		TABLE: Wet leakage current test After PID Test		P
Test Date [MM/DD/YYYY].....:		05/08/2024		-
Test Voltage applied [V].....:		1500		-
Solution resistivity [ $\Omega$ cm].....:		<3500 at 22 $\pm$ 3°C	2498	-
Surface tension [ $\text{Nm}^{-1}$ ].....:		<0.03 at 22 $\pm$ 3°C	-	-
Solution temperature [°C].....:		23.9		-
Sample#	Measured[G $\Omega$ ]	Limit[M $\Omega$ ]	Result	
1	3.94	14.34	P	
2	3.57	14.34	P	
3	3.72	14.34	P	

Supplementary information: Area of module 2.79 [m<sup>2</sup>].

10.1 Final		TABLE: Visual inspection After PID Test		P
Test Date [MM/DD/YYYY].....:		05/09/2024		-
Sample #	Nature and position of initial findings – comments or attach photos			
1	No visual defect			P
2	No visual defect			P
3	No visual defect			P

Supplementary information: Nil

TESTED BY



Vikas

Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASAHIB ASWAR  
Lab Manager

ISSUED BY

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General Manager



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**ANNEX 1: PRODUCT DESCRIPTION SHEET (MANUFACTURERS AND TYPE REFERENCES)**

<b>A1.1</b>	<b>MODULE TYPE/S</b>	
	Model Tested:	
<b>A1.2</b>	<b>MODULE DESIGN –DIMENSIONS</b>	
	Module dimensions (L x W x H) [mm].....:	2464 x 1134 x35
<b>A1.3</b>	<b>SOLAR CELL</b>	
	Cell type reference.....:	182M-10D11, N-type TOPCon Manufactured by JIETAI NEW ENERGY TECHNOLOGY CO., LTD.
	Cell dimensions L x W [mm].....:	91mmX182mm±0.5mm
	Cell thickness [µm].....:	130µm±13µm
	Cell area [cm <sup>2</sup> ].....:	165.62

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ISSUED BY



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A1.4 IDENTIFICATION OF MATERIALS	
Front cover.....	AR coating tempered glass, Thickness: 3.20mm, Manufactured by BOROSIL RENEWABLES LIMITED
Rear cover.....	PRESERV 1- 300 TF, Manufactured by: RENEWSYS INDIA PVT.LTD
Encapsulation material.....	CONCERVE 360, Thickness: 0.45-0.65±5% Manufactured by RENEWSYS INDIA PVT. LTD.
Frame parts.....	Alloy 6063, T6 ALOM EXTRUSION LTD.
Mounting parts.....	As per instruction manual
Adhesive for frame.....	Fasto SM30, Manufactured by: FASTO ADVANCE MATERIALS INDIA PVT.LTD
Cell connector.....	Sn60/Pb40, 0.32mm Manufactured by:GEBa CABLES AND WIRES INDIA PRIVATE LIMITED.
String connector.....	Sn60/Pb40, 6X0.4mm and 4 X 0.4mm, Manufactured by:GEBa CABLES AND WIRES INDIA PRIVATE LIMITED.
Fluxing agent.....	952-S Manufactured by:KESTER
Junction box.....	GXC01, Rated Voltage: 1500V VDC, Manufactured by: GENX PV INDIA private limited.
Cable.....	BIRLA UNISTAR 1Cx4.0 mm <sup>2</sup> , Rated voltage: 1.8kv DC, Manufactured by: VINDHYA TELELINK LTD. Tested as per IS 17293: 2020 with CM/L no.: 8200162706
Connector.....	GXC01, Rated Voltage: 1500V DC, Rated Current: 40A, -40 to +85°C, IP68, Manufactured by: GENX PV INDIA PRIVATE LIMITED.
Bypass diode.....	Type: MK6045; VRRM: 45V, IF(AV) : 60A, RθJC : 1.2, Tj : +200°C Manufactured by: Genx PV India Private Limited
Potting material.....	Fasto SP70, Manufactured by: FASTO ADVANCE MATERIALS INDIA PVT.LTD
Adhesive for junction box.....	Fasto SM30, Manufactured by: FASTO ADVANCE MATERIALS INDIA

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NILESH BALASUBHARASWAR  
Lab Manager

Paras Singh  
General Manager



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5, Noida-201301
T +91 (120) 4516264-65 F +91 (120) 4750296
E info@urs-labs.com W www.urs-labs.com
CIN NO U21014UP1987PTC008956



TEST REPORT NO.: URS/LAB/02/RID/24-25/1661

DATE OF ISSUE:23/05/2024

ULR: ULR-TC646824100003399F

CUSTOMER NAME: ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED

CUSTOMER CITY:RAIPUR

Table with 2 columns: Description, Value. Row 1: Additional material (e. g. fixing tape, insulation tape)...: PVT.LTD

Table with 2 columns: Description, Value. Section A1.5: MODULE DESIGN - MINIMUM DISTANCES. Rows: Between cells (mm)...: 14mm; Between cell and edge of laminate (mm)...: 13.5mm; Between any current carrying part and edge of laminate (mm)...: 14mm

Table with 2 columns: Description, Value. Section A1.6: MODULE DESIGN - ELECTRICAL CONFIGURATION. Rows: Total number of cells...: 156(6 x24); Serial-parallel connection of cells...: 156(6 x24); Cells per bypass diode...: 52; No. of bypass diodes...: 3

List of Annexes

Annex 1: Statement of the estimated uncertainty of the test results

Annex 2: Photographs of EUT

TESTED BY



Vikas

Vikas Analyst

AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR Lab Manager

ISSUED BY



Paras Singh General Manager



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## Annex 1: Statement of the estimated uncertainty of the test results

For Pmp – Measurement uncertainty is  $\pm 2.3\%$   
For Isc – Measurement uncertainty is  $\pm 2.2\%$   
For Voc – Measurement uncertainty is  $\pm 2.0\%$

TESTED BY



*Vikas*

Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASHEB ASWAR  
Lab Manager

ISSUED BY



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General Manager



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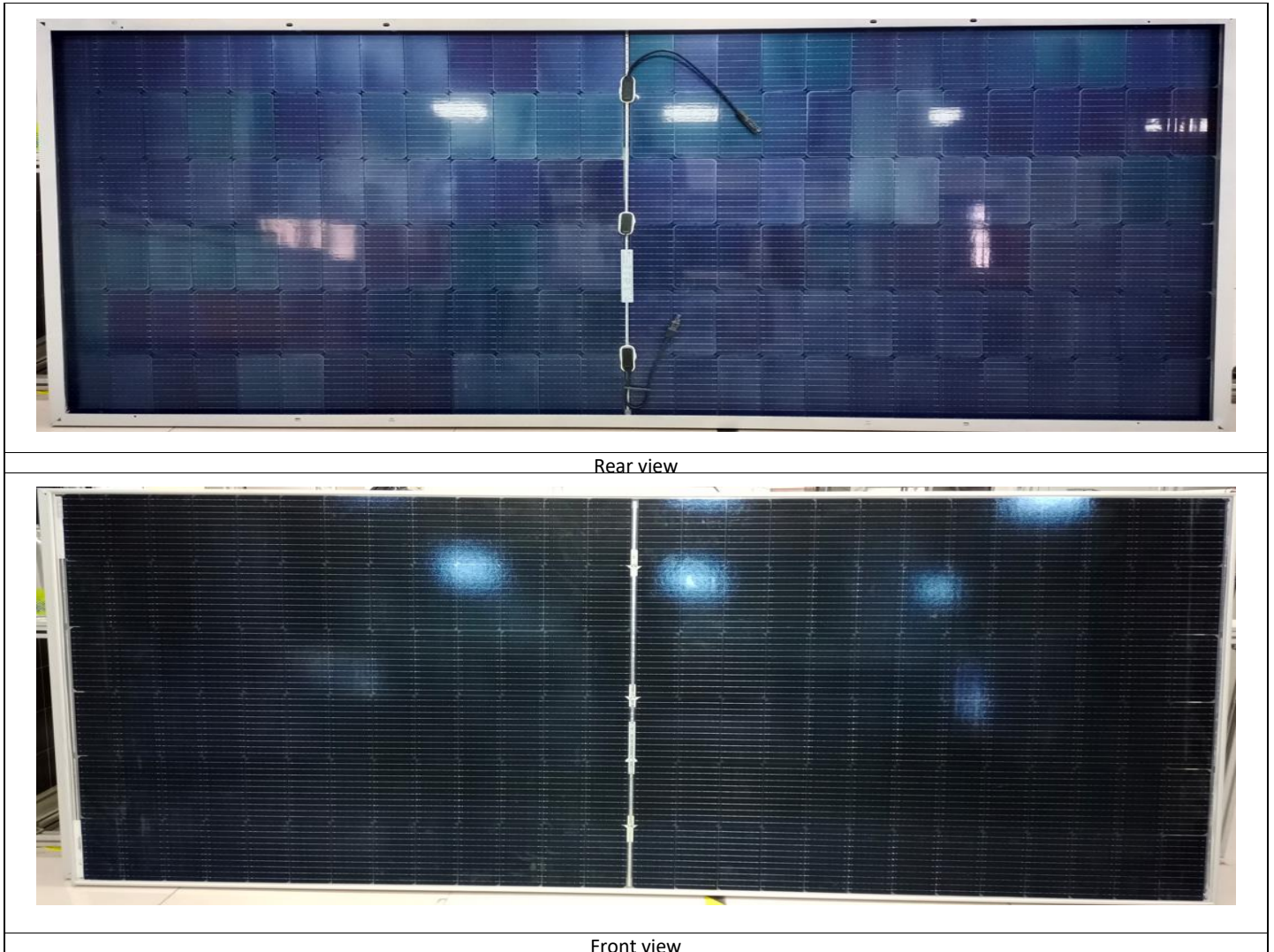
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## Annex 2: Photographs of EUT



.....End of the document.....

TESTED BY



*Vikas*

Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASAHU ASWAR  
Lab Manager

ISSUED BY

Paras Singh  
General Manager