



# URS PRODUCTS AND TESTING PRIVATE LIMITED

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 CIN NO U21014UP1987PTC008956




## TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/24-25/6760	DATE OF ISSUE:	12/09/2024
ULR NUMBER	TC646824100007004F		

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 Chattisgarh Raipur, 492001

TEST ITEM DESCRIPTION			
PRODUCT NAME:	SOLAR PV MODULE		
DATE OF RECEIPT	26/06/2024	SAMPLE CONDITION:	ok
RECEIPT NUMBER	URS/LAB/MODULE(PV)/24-25/5DDFC6EF	NO. OF SAMPLE	3
TRADE MARK		SERIAL NUMBER	See page no. 4
MODEL	<b>Model Tested:</b> ISEN600-Bi <b>Series Model:</b> <b>156 Half cut cell family with system voltage 1500V</b> ISEN595-Bi, ISEN590-Bi, ISEN585-Bi, ISEN580-Bi, ISEN575-Bi, ISEN570-Bi, ISEN565-Bi, ISEN560-Bi, <b>144 Half cut cell family with system voltage 1500V</b> ISEN555-Bi, ISEN550-Bi, ISEN545-Bi, ISEN540-Bi, ISEN535-Bi, ISEN530-Bi, ISEN525-Bi, ISEN520-Bi, <b>132 Half cut cell family with system voltage 1500V</b> ISEN505-Bi, ISEN500-Bi, ISEN495-Bi, ISEN490-Bi, ISEN485-Bi, ISEN480-Bi, <b>120 Half cut cell family with system voltage 1500V</b> ISEN460-Bi, ISEN455-Bi, ISEN450-Bi, ISEN445-Bi, ISEN440-Bi, ISEN435-Bi, ISEN430-Bi, ISEN425-Bi, ISEN420-Bi, <b>108 Half cut cell family with system voltage 1500V</b> ISEN410-Bi, ISEN405-Bi, ISEN400-Bi, ISEN395-Bi, ISEN390-Bi, ISEN385-Bi, ISEN380-Bi		
RATINGS/SPECIFICATION	See the marking Label (Page no. 03)		
NAME OF MANUFACTURER	Icon Solar- En Power Technologies Private Limited		
ADDRESS OF MANUFACTURER	PH No.09, Gram Dighari Mandir Hasaud, Teh Arang Chattisgarh Raipur, 492001		

TEST SPECIFICATION			
TEST METHOD / STANDARD	IEC 61701: 2020 (Severity 6)		
TEST START DATE	26/06/2024	TEST END DATE	12/09/2024
ENVIRONMENTAL CONDITIONS	15-35°C, 45-75%RH		

TESTED BY

Vikas



Vikas  
Analyst

AUTHORIZED SIGNATURE



NILESH BALASAHEB ASWAR  
Lab Manager

ISSUED BY



Paras Singh  
Vice President (Technical)

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 07 days 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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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.

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 Chattisgarh Raipur, 492001
Model/Type reference.....:	<b>Model Tested:</b> ISEN600-Bi <b>Series Model:</b> <b>156 Half cut cell family with system voltage 1500V</b> ISEN595-Bi, ISEN590-Bi, ISEN585-Bi, ISEN580-Bi, ISEN575-Bi, ISEN570-Bi, ISEN565-Bi, ISEN560-Bi, <b>144 Half cut cell family with system voltage 1500V</b> ISEN555-Bi, ISEN550-Bi, ISEN545-Bi, ISEN540-Bi, ISEN535-Bi, ISEN530-Bi, ISEN525-Bi, ISEN520-Bi, <b>132 Half cut cell family with system voltage 1500V</b> ISEN505-Bi, ISEN500-Bi, ISEN495-Bi, ISEN490-Bi, ISEN485-Bi, ISEN480-Bi, <b>120 Half cut cell family with system voltage 1500V</b> ISEN460-Bi, ISEN455-Bi, ISEN450-Bi, ISEN445-Bi, ISEN440-Bi, ISEN435-Bi, ISEN430-Bi, ISEN425-Bi, ISEN420-Bi, <b>108 Half cut cell family with system voltage 1500V</b> ISEN410-Bi, ISEN405-Bi, ISEN400-Bi, ISEN395-Bi, ISEN390-Bi, ISEN385-Bi, ISEN380-Bi
Ratings.....:	See copy of Marking label and General product information.

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Vikas



Vikas  
Analyst

NILESH BALASAHEB ASWAR  
Lab Manager

Paras Singh  
Vice President (Technical)



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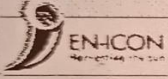

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Copy of Marking Plate (Model No. Tested: ISEN620N-TOP)			
 <b>Icon Solar-En Power Technologies Private Limited</b> Factory Address- PH No. 09, Gram-Dighari, Mandir Hasaud, Teh - Arang, Raipur 492001, Chhattisgarh, India Tel: +91 771-4065755 ELECTRICAL PARAMETER MEASURED AT STC	Model No : ISEN600-Bi Pmax (W) : 600 Wp, ± 2% Voc (V) : 53.50 V Vm (V) : 45.20 V Isc (A) : 14.08 A Imax (A) : 13.29 A	Dimension (L x W x H) : 2464 x 1134 x 35mm System Voltage : 1500 V Series Fuse Rating : 25 A Application Class : CLASS A Safety Class : CLASS II Fire safety Class : CLASS C	 <b>WARNING</b> ELECTRICAL HAZARD www.iconsolar-en.com
	ELECTRICAL PARAMETER MEASURED AT STC		

### Polarity marking on Junction Box



### Polarity marking on Connectors



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S. No	TEST PARAMETER (CLAUSE REFERENCE)	
1	Visual Inspection (MQT 01)	URS PRODUCTS AND TESTING PRIVATE LIMITED A-29, Sector 5, Noida-201301, India
2	Maximum power determination (MQT 02)	
3	Insulation test (MQT 03)	
4	Wet leakage current test (MST 17)	
5	Continuity test of equipotential bonding (MST 13)	
6	Salt mist corrosion test	

Model	Sample #	Serial Number
ISEN600-Bi	1	1 & ICON600B1006081037
	2	2 & ICON600B1006081038
	3	3 & ICON600B1006081039

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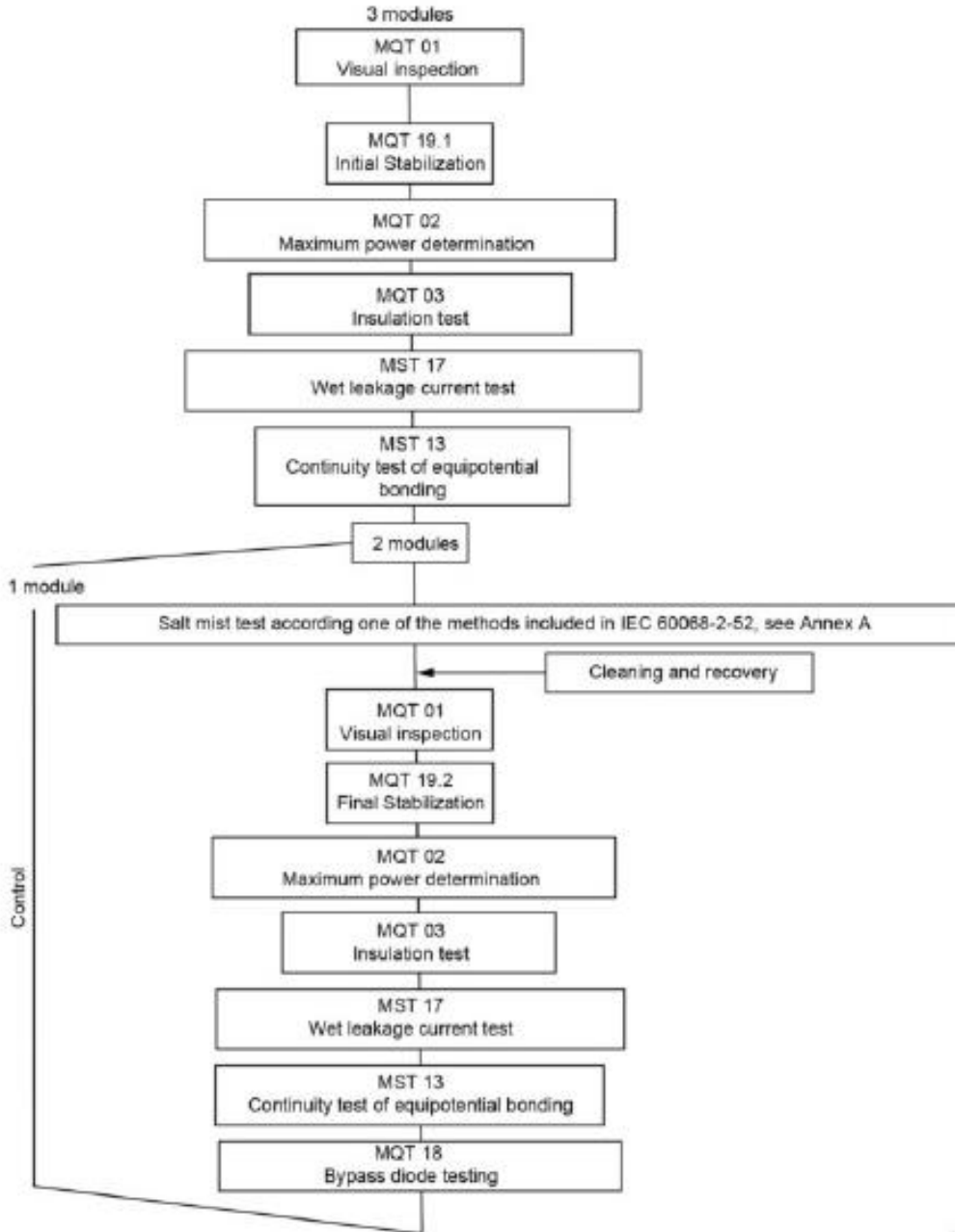
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TABLE 6.3 (a): Initial Visual inspection (MQT 01)		p
Test Date [YYYY-MM-DD] .....	2024-07-01	—
Sample #	Nature and position of initial findings – comments or attach photos	—
1	No major visual defects found	p
2	No major visual defects found	p
3	No major visual defects found	p
Supplementary information: N/A		

TABLE 6.3 (c): Initial Maximum power determination (MQT 02)							p
Test Date [YYYY-MM-DD] .....	2024-07-01						—
Test method .....	<input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight						—
Sample #	Isc [A]	Voc [V]	Imax [A]	Vmax [V]	Pmax [W]	FF [%]	Result
1	53.4	45.1	14.061	13.262	598.12	79.66	--
2	53.3	45.2	14.062	13.261	599.40	79.97	--
3	53.4	45.2	14.061	13.264	599.53	79.85	--
Supplementary information: Stabilization (Irradiance exposure of >10KWh/m <sup>2</sup> ) is done.							

TABLE 6.3 (d): Initial Insulation test (MQT 03)					p
Test Date [YYYY-MM-DD] .....	2024-07-01				—
Test Voltage applied [V] .....	4000 for 1 min/1500 for 2 min				—
Size of module [m <sup>2</sup> ] .....	2.79				—
Required Resistance [MΩ] .....	14.34				—
Sample #	Measured GΩ	Dielectric breakdown		Result	
		Yes (description)	No		
1	7.54	No dielectric breakdown	-	p	
2	6.63	No dielectric breakdown	-	p	
3	5.72	No dielectric breakdown	-	p	
Supplementary information: Minimum requirement according to the standard is 40 MΩ m <sup>2</sup>					

TABLE 6.3 (e): Initial Wet leakage current test (MQT 17)				p
Test Date [YYYY-MM-DD] .....	2024-07-01			—
Test Voltage applied [V] .....	1500			—
Solution temperature [°C] .....	23.7			—
Size of module [m <sup>2</sup> ] .....	2.79			—
Sample #	Required Resistance [MΩ]	Measured [GΩ]		Result
1	14.34	3.43		p
2	14.34	2.51		p
3	14.34	3.74		p
Supplementary information: Solution resistivity 2576 [Ω-cm]				

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TABLE 6.3 (f): Continuity Test of Equipotential Bonding - MST 13 (Initial)			P
Test Date [YYYY-MM-DD].....:		2024-07-01	-
Maximum system voltage [VDC] .....		1500	-
Current applied [A].....:		62.5	-
Location of designated grounding point.....:		On the middle of the longest frame	-
Location of second contacting point.....:		On the other middle of the longest frame	-
Sample No.	Voltage [VDC]	Resistance [Ω]	P
1	0.41	0.007	p
2	0.38	0.006	p
3	0.43	0.007	p
Supplementary information: Nil			

TABLE 6.5: Salt mist corrosion test (Severity 6)			P
Test Date [YYYY-MM-DD].....:		2024-07-03 to 2024-08-28	-
Maximum system voltage [VDC] .....		1500	-
Sample # .....		1	P
Sample # .....		2	P
NaCl concentration .....		5%	
Course of cycle (7 Days)		- Spraying: 2h / 15-35°C / reaction of NaCl - Humidity storage: 20-22h/40°C/RH 93% - After four periods of spraying and humidity storage, one storage period under standard atmosphere: 3 days / 23°C / RH 45%-55%	-
Duration .....		8 cycles = 56 days	-
Supplementary information: Nil			

TABLE 6.3 (a): Final Visual inspection (MQT 01)			P
Test Date [YYYY-MM-DD] .....		2024-08-29	—
Sample #	Nature and position of initial findings – comments or attach photos		P
1	No major visual defects found		p
2	No major visual defects found		p
Supplementary information: N/A			

TABLE 6.3 (c): Maximum power determination (MQT 02) Final								P
Test Date [YYYY-MM-DD] .....		2024-08-29						—
Test method .....		<input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight						—
Sample #	Isc [A]	Voc [V]	I <sub>max</sub> [A]	V <sub>max</sub> [V]	P <sub>max</sub> [W]	FF [%]	Degradation [%]	Result
1	53.20	44.52	14.043	13.233	589.13	78.86	-1.50	--
2	53.3	44.53	14.045	13.234	589.31	78.72	-1.68	--
Supplementary information: Stabilization (Irradiance exposure of >10KWh/m <sup>2</sup> ) is done.								

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TABLE 6.3 (d): Final Insulation test (MQT 03)				P
Test Date [YYYY-MM-DD] .....	2024-08-30			—
Test Voltage applied [V] .....	4000 for 1 min/1500 for 2 min			—
Size of module [m <sup>2</sup> ] .....	2.79			—
Required Resistance [MΩ].....	14.34			—
Sample #	Measured GΩ	Dielectric breakdown		Result
		Yes (description)	No	
1	2.75	No dielectric breakdown	-	P
2	3.83	No dielectric breakdown	-	P
Supplementary information: Nil				

TABLE 6.3 (e): Final Wet leakage current test (MQT 17)				P
Test Date [YYYY-MM-DD] .....	2024-08-30			—
Test Voltage applied [V].....	1500			—
Solution temperature [°C].....	23.3			—
Size of module [m <sup>2</sup> ] .....	2.79			—
Sample #	Required Resistance [MΩ]	Measured [MΩ]		Result
1	14.34	1.75		P
2	14.34	2.21		P
Supplementary information: Solution resistivity 3756 [Ω-cm].				

6.3 (f)	TABLE: Continuity Test of Equipotential Bonding - MST 13 (Final)			P
Test Date [YYYY-MM-DD].....	2024-08-30			-
Maximum system voltage [VDC] .....	1500			-
Current applied [A].....	62.5			-
Location of designated grounding point.....	On the middle of the longest frame			-
Location of second contacting point.....	On the other middle of the longest frame			-
Sample No.	Voltage [VDC]	Resistance [Ω]		
1	0.35	0.006		P
2	0.32	0.005		P
Supplementary information: Nil				

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TABLE 6.8: Bypass diode functionality test (MQT 18.2)		P
Test Date [YYYY-MM-DD] .....	2024-09-02	—
Sample #.....	1	
	IV curve after shading	Result
Diode 1	Turn on	P
Diode 2	Turn on	P
Diode 3	Turn on	P
Supplementary information: N/A		

TABLE 6.8: Bypass diode functionality test (MQT 18.2)		P
Test Date [YYYY-MM-DD] .....	2024-09-02	—
Sample #.....	2	
	IV curve after shading	Result
Diode 1	Turn on	P
Diode 2	Turn on	P
Diode 3	Turn on	P
Supplementary information: N/A		

**List of Annexes**

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

**Annex 2:** Photographs of EUT

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## Annex 1: PRODUCT DESCRIPTION SHEET (MANUFACTURERS AND TYPE REFERENCES)

<b>A1.1</b>	<b>MODULE TYPE/S</b>	
	Model Tested: ISEN600-Bi	
<b>A1.2</b>	<b>MODULE DESIGN –DIMENSIONS</b>	
	Module dimensions (L x W x H) [mm].....:	2464*1134*35 for 156 half cut cell family 2278*1134*35 for 144 half cut cell family 2094*1134*35 for 132 half cut cell family 1908*1134*35 for 120 half cut cell family 1722*1134*35 for 108 half cut cell family
<b>A1.3</b>	<b>SOLAR CELL</b>	
	Cell type reference.....:	<b>Main:</b> 182.2 MONO PERC SOLAR CELL PIRANHA P-TYPE BI-FACIAL, Manufactured by: Premier Energies <b>Alternate:</b> WS182MP10, Manufactured by: Websol Energy System Limited
	Cell dimensions L x W x T (± %) [mm].....:	<b>Main:</b> 91.1mm *182.2mm (±0.25 mm) <b>Alternate:</b> 91.1mm *182.2mm (±0.5 mm)
	Cell thickness [µm].....:	<b>Main:</b> 145 ± 25 µm <b>Alternate:</b> 150 ± 15 µm
	Cell area [cm²].....:	<b>Main:</b> 165.984 <b>Alternate:</b> 165.984
<b>A1.4</b>	<b>IDENTIFICATION OF MATERIALS</b>	
	Front cover.....:	Solar Glass Tempered AR Coated; THICKNESS: 3.2mm ±0.2mm; Manufactured by: BOROSIL RENEWABLES LTD.
	Rear cover.....:	PRESERV 1- 300 TF; THICKNESS: 360 µm, Rated voltage: 1500V, FSI :29.5, RTI 140°C and 150°C Manufactured by: Renewsys India Private LTD.
	Encapsulation material.....:	T601FC/ B601FC, Thickness: 0.60mm; Manufactured by: Sunlink Photovoltaic Pvt. Ltd.
	Frame parts.....:	Material/Coating: Alloy 6063, T6, Thickness: 35mm; Manufactured by Sudarshan Alluminium India Limited
	Mounting parts.....:	As per installation manual
	Adhesive for frame.....:	Fasto SM30, White colour; Manufactured by FASTO ADVANCE MATERIALS INDIA PVT.

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		LTD.
	Cell connector.....:	Solder tin plated copper ribbons, Sn60%/Pb40% Dimensions [mm]: 0.32 mm; Manufactured by: GEBA CABLES & WIRES INDIA PRIVATE LIMITED
	String connector.....:	Busbar, Sn60%/Pb40%, Dimensions [mm]: 4x 0.40mm & 6x 0.40mm, Manufactured by: GEBA CABLES & WIRES INDIA PRIVATE LIMITED
	Fluxing agent.....:	952-S, Low-Solids, No-Clean Liquid Flux, Manufactured by Kester
	Junction box.....:	GXSB-01, Rated voltage: 1.5KVDC, Rated Current: 25A, IP68, Ambient Temperature: -40°C to +85°C, Manufactured by GENX PV INDIA PRIVATE LIMITED. Certified by TUV SUD; certificate no.: B1157770002
	Cable	BIRLA UNISTAR solar cable 1CX4.0mm <sup>2</sup> , Rated voltage: 1.8 kV DC (Max.), Temperature: - 40°C to +90°C, Max. temperature at conductor:120°C, Manufactured by VINDHYA TELELINKS LIMITED Certificate no.: R 60148057, Tested by TUV Rheinland.
	Connector.....:	GXC-01, Rated voltage: 1500VDC, Rated current: 40A, IP68, Ambient Temperature: -40°C to 85°C, Manufactured by GENX PV INDIA PRIVATE LIMITED. Certificate no.: B 115777 0001 Rev. 00, Tested by TUV SUD.
	Bypass diode.....:	MK5045, Tj [°C]: -55 to +200°C, VRMS: 31.5V; IfSM: 400A; RθJC: 2°C/W, Manufactured by GENX PV INDIA PRIVATE LIMITED.
	Potting material.....:	Fasto SP70, White colour; Manufactured by FASTO ADVANCE MATERIALS INDIA PVT. LTD.
	Adhesive for junction box.....:	Fasto SM30, White colour; Manufactured by FASTO ADVANCE MATERIALS INDIA PVT. LTD.
	Soldering Material.....:	N/A
	Additional material (e. g. insulation tape)....:	N/A

TESTED BY

AUTHORIZED SIGNATURE

ISSUED BY

Vikas



Vikas  
Analyst

NILESH BALASAHEB ASWAR  
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CIN NO U21014UP1987PTC008956



TEST REPORT NO.: URS/LAB/02/RID/24-25/6760

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CUSTOMER NAME: ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED

CUSTOMER CITY: RAIPUR

A1.5	MODULE DESIGN - MINIMUM DISTANCES	
	Between cells.....:	Top to bottom: 1.4mm Along the side: 1.8mm
	Between cell and edge of laminate.....:	13.5mm
	Between any current carrying part and edge of laminate....:	14mm
A1.6	MODULE DESIGN - ELECTRICAL CONFIGURATION	
	Total number of cells.....:	156; 144; 132; 120; 108
	Serial-parallel connection of cells.....:	Series parallel
	Cells per bypass diode.....:	52 for 156 half cut cell family 48 for 144 half cut cell family 44 for 132 half cut cell family 40 for 120 half cut cell family 36 for 108 half cut cell family
	No. of bypass diodes.....:	3

**Note:** Bill of material are same for all series family models.

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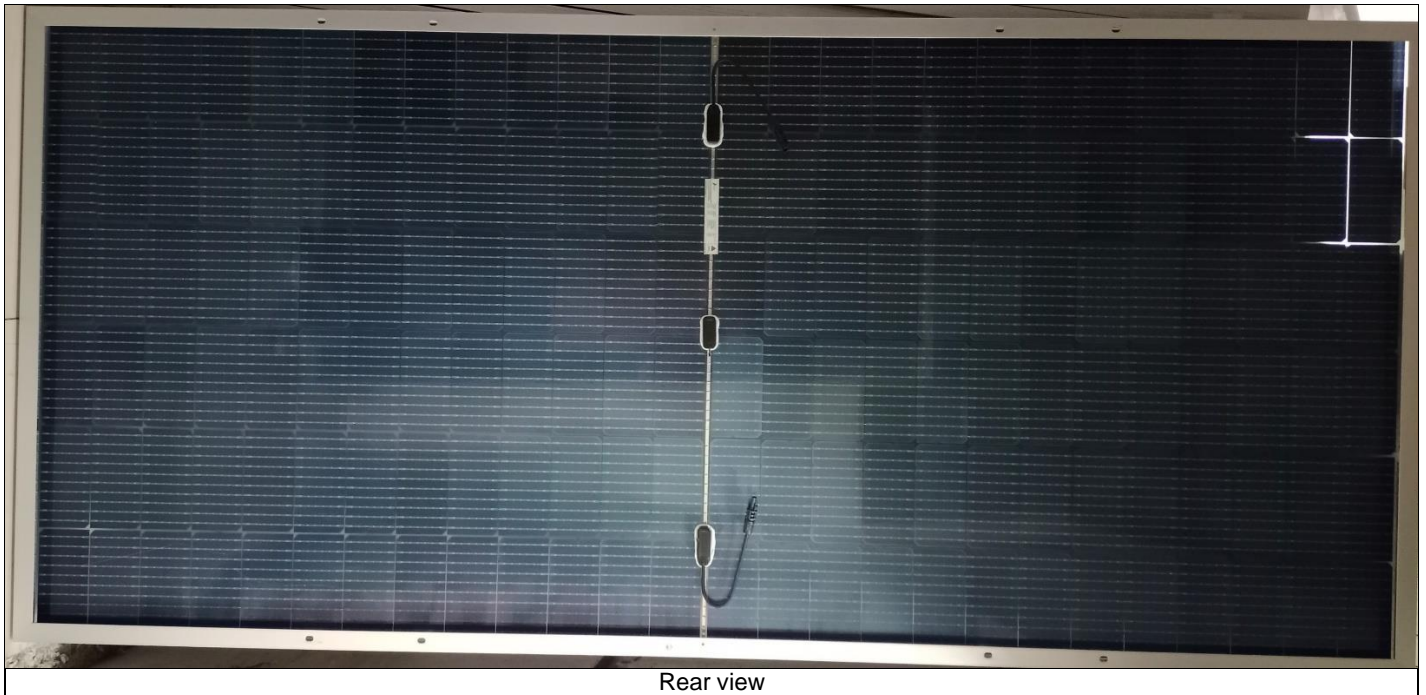
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## Annex 2: Photographs of EUT

### Photographs of EUT



Rear view

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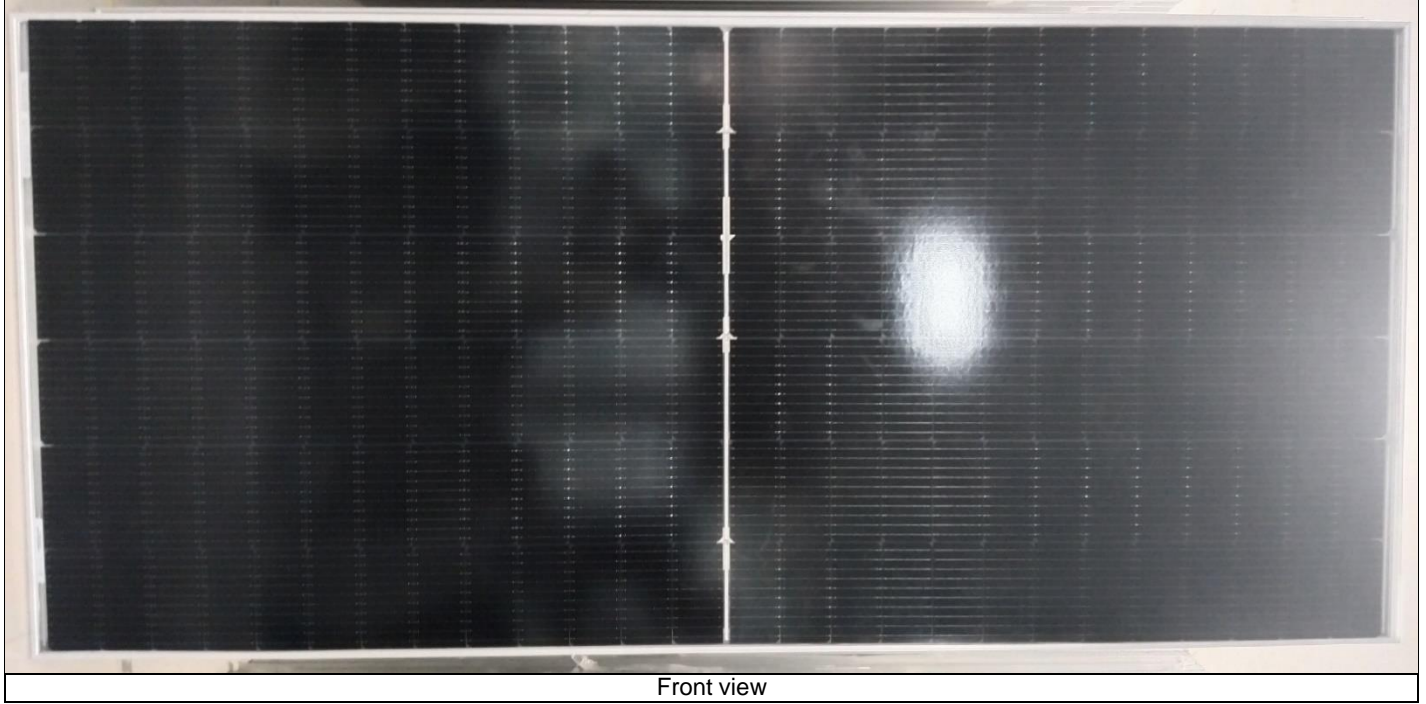
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**--END OF REPORT--**

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