



URS PRODUCTS AND TESTING PRIVATE LIMITED

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CIN NO U21014UP1987PTC008956



TC-6468

TEST REPORT NO.: URS/LAB/02/RID/24-25/2949

DATE OF ISSUE:19/06/2024

ULR: ULR-TC646824100004256F

CUSTOMER NAME: ICON SOLAR-EN POWER TECHNOLOGIES PRIVATE LIMITED

CUSTOMER CITY:RAIPUR

TABLE 6.3 (e): Final Wet leakage current test (MQT 17)				P
Test Date [YYYY-MM-DD]		2024-06-19		-
Test Voltage applied [V].....		1500		-
Solution temperature [°C].....		23.8		-
Size of module [m ²]		2.794		-
Sample #	Required Resistance [MΩ]	Measured [MΩ]	Result	
1	14.32	2.65	P	
2	14.32	2.98	P	
Supplementary information: Solution resistivity 3054 [Ω·cm].				

6.3 (f) TABLE: Continuity Test of Equipotential Bonding - MST 13 (Final)				P
Test Date [YYYY-MM-DD].....		2024-06-19		-
Maximum system voltage [VDC]		1500		-
Current applied [A].....		75		-
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]	Result	
1	0.31	0.004	P	
2	0.35	0.005	P	
Supplementary information: Nil				

TABLE 6.8: Bypass diode functionality test (MQT 18.2)				P
Test Date [YYYY-MM-DD]		2024-06-19		-
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				

TESTED BY

Vikas

Vikas
Analyst



AUTHORIZED SIGNATURE



NILESH BALASAHIB ASWAR
Lab Manager

ISSUED BY



Paras Singh
General Manager



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TABLE 6.8: Bypass diode functionality test (MQT 18.2)		P
Test Date [YYYY-MM-DD]	2024-06-19	—
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)

A1.1	MODULE TYPE/S	
	Model Tested: ISEN620N-TOP	
A1.2	MODULE DESIGN –DIMENSIONS	
	Module dimensions (L x W x H) [mm].....:	2464 x 1134 x35
A1.3	SOLAR CELL	
	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 [cm²].....:	165.62
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:GEBА CABLES AND WIRES INDIA PRIVATE LIMITED.
	String connector.....:	Sn60/Pb40, 6X0.4mm and 4 X 0.4mm, Manufactured by:GEBА CABLES AND WIRES INDIA PRIVATE LIMITED.
	Fluxing agent.....:	952-S Manufactured by:KESTER
	Junction box.....:	GXCO1, Rated Voltage: 1500V DC, Rated Current: 40A, -40 to +85°C, IP68, Manufactured by: GENX PV INDIA PRIVATE LIMITED. Certificate No. B 115777 0001 Rev. 00 Tested by TUV SUD PRODUCT SERVICE GMBH.
	Cable.....:	BIRLA UNISTAR 1Cx4.0 mm², Rated voltage: 1.8kv DC, Manufactured by: VINDHYA TELELINK LTD. Tested as per IS 17293: 2020 with CM/L no.: 8200162706
	Connector.....:	GXCO1, Rated Voltage: 1500V DC, Rated Current: 40A, -40 to +85°C, IP68, Manufactured by: GENX PV INDIA PRIVATE LIMITED.

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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

	PVT.LTD
Additional material (e. g. fixing tape, insulation tape)....:	

A1.5	MODULE DESIGN - MINIMUM DISTANCES	
	Between cells (mm).....:	14mm
	Between cell and edge of laminate (mm).....:	13.5mm
	Between any current carrying part and edge of laminate (mm).....:	14mm

A1.6	MODULE DESIGN - ELECTRICAL CONFIGURATION	
	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

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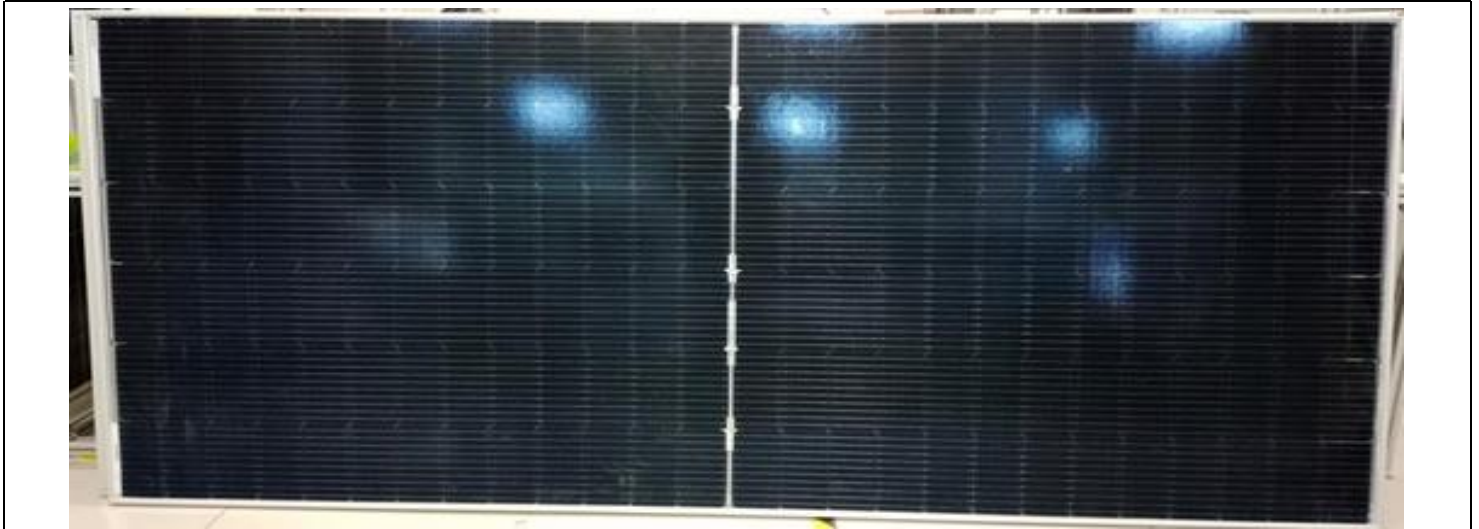
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Annex 2: Photographs of EUT

Photographs of EUT



Rear view



Front view

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