




**URS PRODUCTS AND TESTING PRIVATE LIMITED**  
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 CIN NO U21014UP1987PTC008956



### TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/25-26/18183		DATE OF ISSUE:	15/01/2026
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:	ARMY SOLAR ENERGY PRIVATE LIMITED			
CUSTOMER ADDRESS:	NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, 394110			
<b>TEST ITEM DESCRIPTION</b>				
PRODUCT NAME:	Solar PV Module			
DATE OF RECEIPT	10/12/2025	SAMPLE CONDITION:	ok	
RECEIPT NUMBER	URS/LAB/COR/25-26/B7E0CFCF	NO. OF SAMPLE	4	
TRADE MARK		SERIAL NUMBER	AS1025650TG00043 AS1025650TG00049 AS1025650TG00050	
MODEL	Lead Model: AS-156TG-650			
RATINGS/SPECIFICATION	See the marking Label (Page no. 03)			
NAME OF MANUFACTURER	ARMY SOLAR ENERGY PRIVATE LIMITED			
ADDRESS OF MANUFACTURER	NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, India, 394110			
<b>TEST SPECIFICATION</b>				
TEST METHOD / STANDARD	Ammonia corrosion			
TEST START DATE	10/12/2025	TEST END DATE	15/01/2026	
ENVIRONMENTAL CONDITIONS	23±5°C, ≤70%RH			
<b>CONCLUSION</b>				
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



Sudheer Mahor  
Analyst



AUTHORIZED SIGNATURE



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Vice President (Technical)

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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.



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**CUSTOMER CITY:**SURAT

Summary of testing:	
<p><b>Tests performed (name of test and test clause):</b></p> <p>Visual inspection (MST 01) Maximum power determination (10.2) Dielectric withstand test (MST 16) Wet leakage current test (10.15) Ground continuity test (MST 13) Ammonia corrosion test Bypass diode functionality test (MST 07)</p>	<p><b>Testing location:</b></p> <p>URS PRODUCTS AND TESTING PRIVATE LIMITED            A-29, Sector 5, Noida-201301, India</p>

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The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Manufacturer that own these marks.

<b>MODULE TYPE: AS-156TG-650</b>		<b>MADE IN INDIA</b>	
<p>Rated Power (Pmax) : 650W          Rated Voltage (Vmp) : 46.09V          Rated Current (Imp) : 14.11A          Open Circuit Voltage (Voc) : 57.00V          Short Circuit Current (Isc) : 14.83A          Output Tolerance : 0 to 2%          Series Fuse Rating : 30A          Module Efficiency : 23.24%          Application Class Rating : Class A          Safety Class Rating : Class II          Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT- 394110	<p>All Values are measured at STC :          25°C Temp Cell, 1000W/MSQ, AM 1.5</p> <p>Module Dimensions:          (2466 X 1134 X 30 in mm)</p> <p>Module Weight: 38.5Kgs</p>	<p>WARNING-ELECTRICAL HAZARD: This module produce electricity when exposed to the sunlight,cover the glass side with an opeque material,before opening junction box, do not touch terminal when modules are exposed to the sunlight.</p>

 ARMY SOLAR ENERGY PRIVATE LIMITED	<p>Model No. AS-156TG-650          Nominal Wattage: 650W±2%</p>  <b>AS1025650TG00043</b>	<p>Year of Mfg: 2025          Made in India          Module Efficiency: 23.24%</p>
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Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement .....: P (Pass)
- test object does not meet the requirement .....: F (Fail)

Abbreviations used in the report:

Pmax – Maximum power	$\alpha$ – Current temperature coefficient $\beta$
Vmp – Maximum power voltage	– Voltage temperature coefficient $\delta$ –
Imp – Maximum power current Isc	power temperature coefficient
– Short circuit current	NMOT – Nominal Module Operating Temperature (20°C, 800 W/m <sup>2</sup> )
Voc – Open circuit voltage	VFMrated – Rated diode(s) forward voltage VFM
FF – Fill factor	– Measured diode(s) forward voltage NP –
STC – Standard Test Conditions (25°C, 1 000 W/m <sup>2</sup> )	Nameplate
$t_1$ – the <i>manufacturer's</i> rated lower production tolerance in % for Pmax	$t_2$ – the <i>manufacturer's</i> rated upper production tolerance in % for Voc
$t_3$ – the <i>manufacturer's</i> rated upper production tolerance in % for Isc	r – Pmax measurement reproducibility
$m_1$ – the measurement uncertainty in % of laboratory for Pmax	$m_2$ – the measurement uncertainty in % of laboratory for Voc
$m_3$ – the measurement uncertainty in % of laboratory for Isc	

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**GENERAL REMARKS:**

According to the inquiry, test procedure was in accordance with IEC 62716:2013, EN 62716:2013.  
 Test procedure is according to *client's* requirements. Test results are documented within this test report.

Maximum System Voltage: 1500 V  
 Hours: 8h including heating up (1 test section), 16h including cooling (2 test section) NH3  
 concentration: 6667ppm (1 test section), 0ppm (2 test section)  
 Temperature: 60°C (1 test section), 18°C -28°C (2 test section)  
 Relative humidity: nearly 100% (1 test section), max. 75% (2 test section)  
 Duration: 20 cycles = 480 hours (20 days) Product  
 material information is listed as below:

All tests were performed in this test report.

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a  comma /  point is used as the decimal separator.

Name and address of factory (factories)..... :

ARMY SOLAR ENERGY PRIVATE LIMITED  
 NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA  
 ROAD, SURAT, GUJARAT, India, 394110

**PRODUCT ELECTRICAL RATINGS:**

Module type	AS-156TG-650	-	-	-
Voc [V]	57.00 V (±2%)	-	-	-
Vmp [V]	46.09 V	-	-	-
I <sub>max</sub> [A <sub>dc</sub> ]	14.11 A	-	-	-
I <sub>sc</sub> [A <sub>dc</sub> ]	14.83A (±2%)	-	-	-
P <sub>mp</sub> [W]	650 W (0 to 2%)	-	-	-
Maximum system voltage [V]	1500V	-	-	-
Maximum Over-Current Protection Rating [A]	30A	-	-	-

Note:

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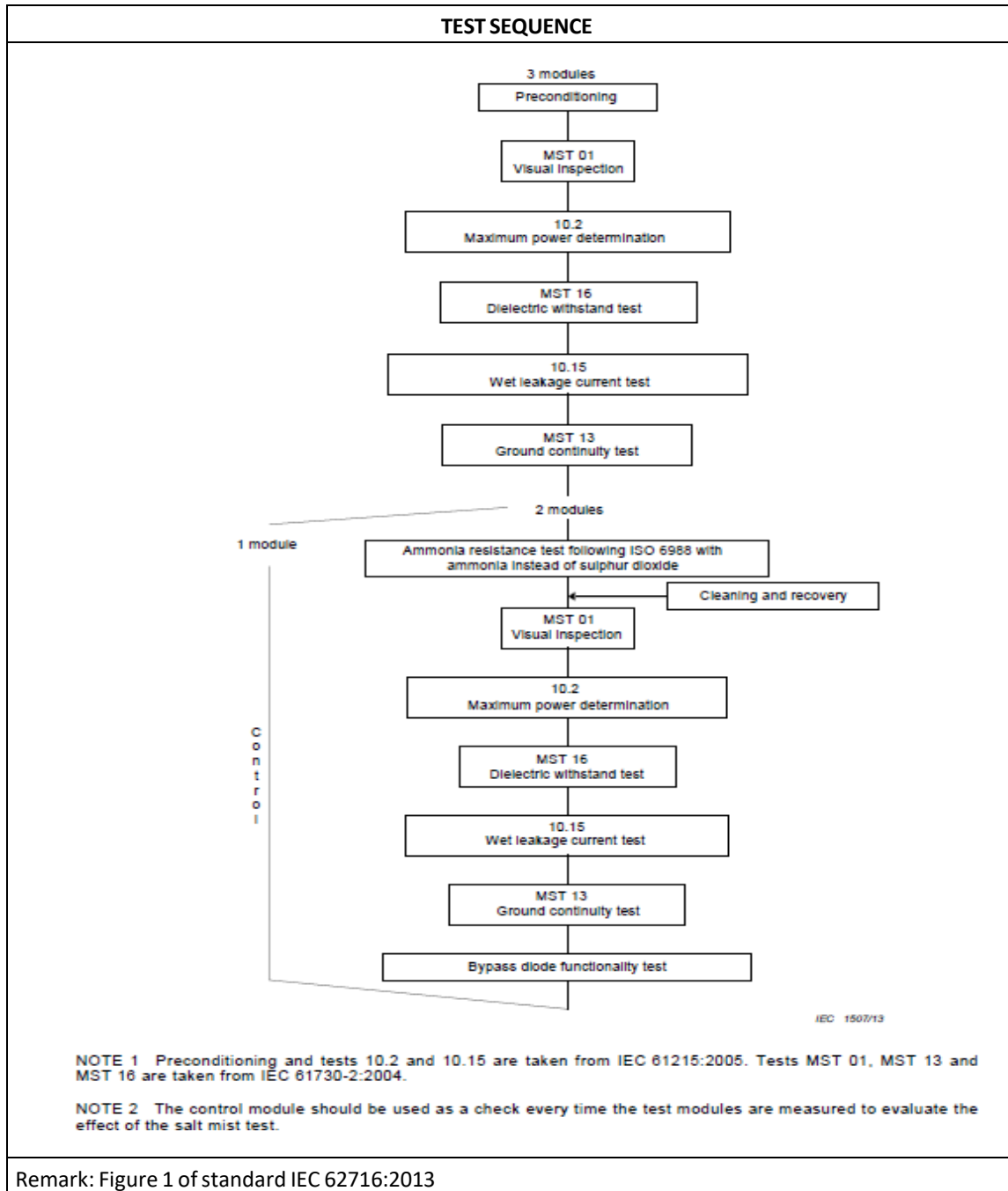


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IEC 62716:2013			
Clause	Requirement + Test	Result - Remark	Verdict

MODULE GROUP ASSIGNMENT:			
Sample #	Type/model	Sample S/N	Remark
1	AS-156TG-650	AS1025650TG00043	Control
2		AS1025650TG00049	Ammonia
3		AS1025650TG00050	Ammonia
Remarks: N/A			

TESTING OVERVIEW			—
Initial Visual inspection (MST 01)	See Table 01		P
Initial Maximum power determination (10.2)	See Table 02		—
Initial Dielectric withstand test (MST 16)	See Table 03		P
Initial Wet leakage current test (10.15)	See Table 04		P
Initial Ground continuity test (MST 13)	See Table 05		P
Ammonia corrosion test	See Table 06		—
Final Visual inspection (MST 01)	See Table 07		P
Final Maximum power determination (10.2)	See Table 08		P
Final Dielectric withstand test (MST 16)	See Table 09		P
Final Wet leakage current test (10.15)	See Table 10		P
Final Ground continuity test (MST 13)	See Table 11		P
Bypass diode functionality test (MST 07)	See Table 12		P

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IEC 62716:2013			
Clause	Requirement + Test	Result - Remark	Verdict

Table 01: Initial Visual inspection			
Test Date (YYYY-MM-DD).....:		2025-12-11	—
Sample # 1	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Sample # 2	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Sample # 3	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Supplementary information: N/A			

Table 02: Initial Maximum power determination							
Test Date [YYYY-MM-DD] .....		2025-12-11				—	
Irradiance (W/m <sup>2</sup> ) .....		1000				—	
Module temperature (°C) .....		25				—	
Test method.....		<input checked="" type="checkbox"/> Simulator		<input type="checkbox"/> Natural sunlight		—	
Sample #	V <sub>oc</sub> [V]	V <sub>mp</sub> [V]	I <sub>sc</sub> [A]	I <sub>mp</sub> [A]	P <sub>max</sub> [W]	FF [%]	Result
1	57.15	46.16	14.256	14.119	651.73	79.99	—
2	57.12	46.14	14.253	14.111	651.08	79.97	—
3	57.16	46.18	14.251	14.115	651.83	80.02	—
Supplementary information: After Stabilization procedure							



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IEC 62716:2013			
Clause	Requirement + Test	Result - Remark	Verdict

Table 03: MST 16 - Initial Dielectric withstand test					
Test Date (YYYY-MM-DD)..... :		2025-12-12			—
Test Voltage applied (V, DC) .....		8000 for 1 min / 1500 for 2 min			—
Sample #	Measured	Required	Dielectric breakdown		Result
	<i>MΩ</i>	<i>MΩ</i>	Yes (description)	No	
1	>1000	14.33	No dielectric breakdown	-	P
2	>1000	14.33	No dielectric breakdown	-	P
3	>1000	14.33	No dielectric breakdown	-	P

Supplementary information: Area of sample is 2.79 m<sup>2</sup>. The insulation tester can measure up to 1000MΩ.

Table 04: Initial Wet leakage current test				
Test Date (YYYY-MM-DD).....:		2026-12-12		—
Test Voltage applied (V, dc).....:		1500		—
Solution resistivity ( $\Omega$ cm)..... :		2516		—
Solution temperature (°C)..... :		22.3		—
Size of module [m <sup>2</sup> ]..... :		2.79		—
Sample #	Required Resistance [ <i>MΩ</i> ]	Measured [ <i>MΩ</i> ]	Result	
1	14.33	>1000	P	
2	14.33	>1000	P	
3	14.33	>1000	P	

Supplementary information: The insulation tester can measure up to 1000MΩ.

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IEC 62716:2013			
Clause	Requirement + Test	Result - Remark	Verdict

Table 05: MST 13 – Initial Ground continuity test		
Test Date Initial examination (YYYY-MM-DD) .....	2025-12-12	—
Maximum over-current protection rating (A) .....	30	?
Current applied (A) .....	75	?
Location of designated grounding point.....	The center of one longer side	—
No. of other conductive parts tested.....	The center of the other longer side The center of one shorter longer side The center of the other shorter side	—
Sample #	Resistance [ $m\Omega$ ]	Result
1	0.514	P
	0.518	
	0.505	
2	0.556	P
	0.552	
	0.539	
3	0.505	P
	0.534	
	0.528	
Supplementary information: N/A		

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Clause	Requirement + Test	Result - Remark	Verdict

Table 06: Ammonia corrosion test			
Test Date (YYYY-MM-DD / YYYY-MM-DD):	2025-12-13 TO 2026-01-01		—
NH3 concentration [ppm]	6667		
Temperature [°C]	60		
Relative humidity [%]	100		
Course of cycle	- exposure of NH3 for 8 hours and 60°C with nearly 100% condensation on the samples - drying for 16 hours at normal atmosphere (18°C - 28°C and max. 75% rel. humidity)		
Duration	20 cycles = 480 hours (20 days)		
Comment	According to DIN EN ISO 3231/DIN EN ISO 6988 DIN 50018		
Sample #	—	—	—
2	-	-	—
3	-	-	—
Supplementary information: N/A			

Table 07: Final Visual inspection			
Test Date (YYYY-MM-DD).....:	2026-01-01		—
Sample # 1	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Sample # 2	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Sample # 3	Findings .....	<input type="checkbox"/> Yes..... <input checked="" type="checkbox"/> No	P
	Nature and position of findings – comments or attach photos	-	—
Supplementary information: N/A			

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IEC 62716:2013			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE 08: Final Maximum power determination								
Test Date [YYYY-MM-DD]..... :			2026-01-02			—		
Test method.....:			<input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight			—		
Irradiance [W/m <sup>2</sup> ] .....			1000			—		
Module temperature [°C].....:			25			—		
Sample #	V <sub>oc</sub> [V]	V <sub>mp</sub> [V]	I <sub>sc</sub> [A]	I <sub>mp</sub> [A]	P <sub>max</sub> [W]	FF [%]	Degradation [%]	Result
1	57.18	46.11	14.246	14.109	650.57	79.86	-0.18	P
2	57.15	46.03	14.236	14.075	647.87	79.63	-0.49	P
3	57.17	46.02	14.238	14.072	647.59	79.56	-0.65	P
Supplementary information: N/A								

Table 09: MST 16 - Final Dielectric withstand test					
Test Date (YYYY-MM-DD) .....			2026-01-02		—
Test Voltage applied (V, DC) .....			8000 for 1 min / 1500 for 2 min		—
Sample #	Measured	Required	Dielectric breakdown		Result
	MΩ	MΩ	Yes (description)	No	
1	>1000	14.33	No dielectric breakdown	-	P
2	>1000	14.33	No dielectric breakdown	-	P
3	>1000	14.33	No dielectric breakdown	-	P
Supplementary information: The insulation tester can measure up to 1000MΩ.					

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Clause	Requirement + Test	Result - Remark	Verdict

Table 10: Final Wet leakage current test			
Test Date (YYYY-MM-DD) .....	2026-01-03		—
Test Voltage applied (V, dc) .....	1500		—
Solution resistivity ( $\Omega$ cm)..... :	2508		—
Solution temperature ( $^{\circ}$ C)..... :	22.7		—
Size of module [ $m^2$ ]..... :	2.79		—
Sample #	Required Resistance [ $M\Omega$ ]	Measured [ $M\Omega$ ]	Result
1	14.33	>1000	P
2	14.33	>1000	P
3	14.33	>1000	P
Supplementary information: The insulation tester can measure up to 1000M $\Omega$ .			

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Clause	Requirement + Test	Result - Remark	Verdict

**Table 11: MST 13 – Final Ground continuity test**

Test Date Final examination (YYYY-MM-DD) .....	2026-01-03	—
Maximum over-current protection rating (A) .....	30	?
Current applied (A) .....	75	?
Location of designated grounding point.....	The center of one longer side	—
No. of other conductive parts tested.....	The center of the other longer side The center of one shorter longer side The center of the other shorter side	—
Sample #	Resistance [ $m\Omega$ ]	Result
1	0.507	P
	0.526	
	0.537	
2	0.559	P
	0.562	
	0.543	
3	0.508	P
	0.534	
	0.549	
Supplementary information: N/A		

**Table 12: Bypass diode functionality test**

Test Date (YYYY-MM-DD)..... :	2026-01-04	—					
Sample #	IV curve after shading						Result
	Diode 1 working properly		Diode 2 working properly		Diode 3 working properly		
1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	P
2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	P
3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	P
Supplementary information: N/A							

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**Annex 1: Photographs of EUT**

**Photographs of EUT**



Rear view



Front view

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**Annex 2: List of measurement equipment**

Equipment Used	
Description	Identification#
Sun simulator	URS/LAB/Lab/841
IV Curve tracer	URS/LAB/Lab/1046
Ammonia chamber	URS/LAB/Lab/1381
Reference Module	URS/LAB/Lab/1449
Temperature data logger	URS/LAB/Lab/925
Solar PV Array	URS/TEE/LAB/633
Continuity Tester	URS/LAB/Lab/852
Bypass Diode Test Setup	URS/LAB/Lab/856

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**Annex 3: BOM Details**

<b>A1.1</b>	<b>MODULE TYPE/S</b>
	Model Tested: AS-156TG-650(Representative & retested Model)

<b>A1.2</b>	<b>MODULE DESIGN –DIMENSIONS</b>
Module dimensions (L x W x H) [mm].....:	2466*1134*30 for 156 Half cut cell family 2278*1134*30 for 144 Half cut cell family 2092*1134*30 for 132 Half cut cell family 1908*1134*30 for 120 Half cut cell family

<b>A1.3</b>	<b>SOLAR CELL</b>
Cell type reference.....:	<b>Main:</b> CZJT-182M-16D1(F172R174), N-type TOPCon Manufactured by: JTPV <b>BOM 1</b>
	<b>Alternate:</b> M18316BTP50, Monocrystalline Bifacial TOPCon Solar Cell Manufactured by: SolarSpace Technology Co., Ltd <b>BOM 2</b>
Cell dimensions L x W x T (± %) [mm].....:	<b>Main:</b> 91.1mm *183.75mm (±0.5 mm) <b>Alternate:</b> 91.1mm *183.75mm (±0.25 mm) <b>BOM 1</b> <b>BOM 2</b>
Cell thickness [µm].....:	<b>Main:</b> 130 ± 13 µm <b>Alternate:</b> 130 ± 13 µm <b>BOM 1</b> <b>BOM 2</b>
Cell area [cm²].....:	<b>Main:</b> 167.39 <b>Alternate:</b> 167.39 <b>BOM 1</b> <b>BOM 2</b>

<b>A1.4</b>	<b>IDENTIFICATION OF MATERIALS</b>
Front cover.....:	High transmission low iron tempered AR Coated glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD. <b>Alternate manufacturer:</b> 1. VISHAKHA GLASS PRIVATE LIMITED 2. BOROSIL RENEWABLES LIMITED 3. FLAT GLASS GROUP CO., LTD 4. CSG HOLDING CO., LTD 5. HENAN ANCAI HI-TECH CO. LTD 6. Shenzhen topray solar 7. Zhejiang Ninghai KIBING 8. SS GROW TECHNOCRATS 9. Gold Plus Float Glass Private Limited 10. WUJIANG CSG 11. FLAT VIETNAM CO. LTD 12. SBH KIBING SOLAR NEW MATERIALS M SDN BHD 13. XINYI SOLAR MALAYSIA SDN 14. HENAN ANCAI HI TECH CO LTD 15. XINYI SOLAR HONGKONG LTD <b>Note: Alternate Front cover having same materials, same production process, and</b>

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		<i>same quality level, only change in manufacturer name as per declared by manufacturer.</i>	
	Rear cover.....:	High transmission low iron tempered glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD. <b>Alternate manufacturer:</b> 1. VISHAKHA GLASS PRIVATE LIMITED 2. BOROSIL RENEWABLES LIMITED 3. FLAT GLASS GROUP CO., LTD 4. CSG HOLDING CO., LTD 5. HENAN ANCAI HI-TECH CO. LTD 6. Shenzhen topray solar 7. Zhejiang Ninghai KIBING 8. SS GROW TECHNOCRATS 9. Gold Plus Float Glass Private Limited 10. WUJIANG CSG 11. FLAT VIETNAM CO. LTD 12. SBH KIBING SOLAR NEW MATERIALS M SDN BHD 13. XINYI SOLAR MALAYSIA SDN BHD 14. HENAN ANCAI HI TECH CO LTD 15. XINYI SOLAR HONGKONG LTD <b>Note: Alternate Rear cover having same materials,same production process, and same quality level, only change in manufacturer name as per declared by manufacturer.</b>	
	Encapsulation material.....:	<b>Main:</b> Front: EP304, Ultra-clear PID free, Thickness: 0.50±0.10mm, Back: F406PS, Ultra-clear PID free, Thickness: 0.50±0.10mm Manufactured by HANGZHOU FIRST APPLIED MATERIAL CO., LTD <b>Alternate:</b> Front: Vishakha EPE, Thickness: Thickness: 0.50±0.10mm, Back: Vishakha EPE, Thickness: Thickness: 0.50±0.10mm Manufactured by VISHAKHA RENEWABLES PRIVATE LIMITED	BOM 1  BOM 2
	Frame parts.....:	6005-T6, Anodized Aluminum Alloy, Thickness: 30mm, Manufactured by Anhui Xinbo Technology Co., Ltd <b>Alternate manufacturer:</b> 1. JIANGYIN TINZE NEW ENERGY TECHNOLOGY CO., LTD 2. JIANGSU SULV NEW MATERIAL TECHNOLOGY CO., LTD 3. FUZHOU ANTONG NEW MATERIAL TECHNOLOGY CO.,LTD 4. Sudarshan Alluminium India Limited 5. Regal Allufin Industries 6. Regal Aluminum company 7. Vishakha Metals Pvt. Ltd. 8. J.M. Industries 9. WUXI U PLUS TECHNOLOGY CO., LTD. 10. Jiangyin Enor New Material Technology Co.,Ltd. (Lu <del>fu</del> ng) 11. Fujian Fenan Aluminium Co. LTD 12. Jiangsu Dinghao Aluminium Technology Co., Ltd.	

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		13. Jiangyin Tianmu Green Energy Technology Co.,Ltd 14. jiangyin PV Tech Chaoyang 15. Yonz Technology Co., Ltd 16. Mr Industries 17. Zhejiang Jianxing Taihe New Energy Technology Co., Ltd. 18. Shandong Tianqu Aluminum Co. Ltd 19. Galco Extrusions Pvt. Ltd 20. Changzhou Lifeng Energy Technology Co; Ltd. 21. Vinitech Metal Private Limited 22. Dharmik Industries 23. Jia Yue Group Co Ltd 24. Jiangyin Optimal Metal Technology Co.,Ltd 25. Jiangyin New Sulv Technology Co Ltd 26. Vima Engineering Company 27. Chizhou Anan Aluminum Co., Ltd. 28. Suzhou Sentong Photovoltaic Co., Ltd. 29. PanAsia enterprises(Nanyang)company limited 30. Jiangyin Renyu Metal products co.Ltd 31. Hebei Xindongrui alloy material Tech. Co. Ltd 32. Orin Metals Private Limited 33. Angel extrusion pvt ltd 34. Y S metal 35. SS GROW TECHNOCRATS <i>Note: Alternate Frame having same Cross section, same framing material, same mounting technique, only change in manufacturer name as per declared by manufacturer.</i>	
	Mounting parts.....:	As per installation manual	
	Adhesive for frame.....:	HT906Z, High-performance RTV sealant, White paste, Manufactured by Shanghai Huitian New Material Co., Ltd. <b>Alternate manufacturer:</b> 1. TONSAN Adhesive, Inc. 2. Adarsha Specialty Chemicals Pvt Ltd 3. Fasto Advance Materials India Pvt. Limited 4. Sikasil 5. Huitian 6. Silande <i>Note: Alternate Adhesive for frame having same technical specification &amp; same material, only manufacturer name change as Declared by manufacturer.</i>	
	Cell connector.....:	Sn60%Pb40%, PV Ribbon (Round wire), $\phi$ 0.26mm, Manufactured by TaiCang JuRen PV Material Co.,Ltd <b>Alternate manufacturer:</b> 1. Valeo Products LLP 2. A B INDUSTRIES 3. Suzhou YourBest New-type Materials Co., Ltd 4. VIDYA WIRES PVT LTD 5. RAPID WIRE	

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		6. Xi'an Telison New Materials Co., Ltd. 7. Jiangsu Fier New Energy 8. Jiangsu Fier New energy company 9. KOS Limited 10. Gadhpat Energy pvt.ltd 11. Ferron industries 12. Shanghai Sunby Solar Technologies Co., Ltd, 13. TAICANG JUREN PHOTOVOLATAIC MATERIAL CO., LTD <b>Note: Alternate Cell connector having same interconnect material, same bonding technique, same number of interconnects, same number of solder bonds per cell, and flux, only change in thickness (tolerance) as per declared by manufacturer.</b>	
	String connector.....:	Sn60%Pb40%, Copper component: ≥99.99%, Dimension: 0.40 ±0.010mm*4±0.10mm, Manufactured by TaiCang JuRen PV Material Co.,Ltd <b>Alternate manufacturer:</b> 1. Valeo Products LLP 2. A B INDUSTRIES 3. Suzhou YourBest New-type Materials Co., Ltd 4. VIDYA WIRES PVT LTD 5. RAPID WIRE 6. Xi'an Telison New Materials Co., Ltd. 7. Jiangsu Fier New Energy 8. Jiangsu Fier New energy company 9. KOS Limited 10. Gadhpat Energy pvt.ltd 11. Ferron industries 12. Shanghai Sunby Solar Technologies Co., Ltd, 13. TAICANG JUREN PHOTOVOLATAIC MATERIAL CO., LTD <b>Note: Alternate String connector having same interconnect material, same bonding technique, same number of interconnects, same number of solder bonds per cell, and flux, only change in thickness(tolerance) as per declared by manufacturer.</b>	
	Fluxing agent.....:	952-S, Low-Solids No-Clean Flux, Manufactured by Kester <b>Alternate manufacturer:</b> 1. superior 2. asahi 3. Arbbital Solutions Private Limited 4. Henkel Corporation 5. METAL CHEM 6. ALPHA Telecore 7. Reality chemicals 8. HuaiHui 9. KHANNA BOND SOLDER MANUFACTURERS PVT LTD 10. Fasto 11. cooksun india pvt ltd 12. National Products <b>Note: Alternate Fluxing agent having same technical specification &amp; same material,</b>	

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		<i>only manufacturer name change as Declared by manufacturer.</i>	
	Junction box	<p>Main:            PV-HT021x, Rated Voltage: 1500VDC, Current: 30A, IP68,            Ambient temperature: -40°C to +85°C,            Manufactured by Jiangsu Hailian Microelectronics Corp.            Tested by TUV SUD, Certificate no.: B 096995 0002</p> <p>Alternate:            DGJB12y (y=c), Rated Voltage: 1500VDC, Current: 30A, IP68,            Ambient temperature: -40°C to +85°C,            Manufactured by Dhash PV Technologies Private Limited            Tested by TUV Rheinland, Certificate no.: R 50535496</p>	BOM 1
			BOM 2
	Cable	<p>62390 IEC 131, 1x4.0mm<sup>2</sup>, HALOGEN FREE LOW SMOKE,            Rated Voltage: 1500VDC, Ambient temperature: -40°C to +90°C, Max.            Temperature at Conductor:120°C,            Manufactured by Jiangsu Hailian Microelectronics Corp.            Tested by TUV Rheinland, test report no. 90808660001</p> <p>Alternate:            62390 IEC 131, 1x4.0mm<sup>2</sup>, Rated Voltage: 1500VDC, Ambient temperature:            -40°C to +90°C, Max. Temperature at Conductor:120°C, Manufactured by            Dhash PV Technologies Private Limited            Tested by TUV Rheinland, Certificate no.: R 50520444</p>	BOM 1
			BOM 2
	Connector	<p>PV-HT03x(x= 0 or 1) Rated Voltage: 1500VDC, Rated current: 45A, IP68,            Ambient temperature: -40°C to +85°C,            Manufactured by Jiangsu Hailian Microelectronics Corp.            Tested by TUV SUD, Certificate no.: B 096995 0003</p> <p>Alternate:            DG01, Rated Voltage: 1500VDC, Rated current: 35A, IP68, Ambient            temperature: -40°C to +85°C,            Manufactured by Dhash PV Technologies Private Limited            Tested by TUV Rheinland, Certificate no.: R 60152493</p>	BOM 1
			BOM 2
	Bypass diode	MKS045, IF(AV)=35A, V <sub>RRM</sub> = 45 V, T <sub>J</sub> = -55°C to +200°C, R <sub>θJ-C</sub> :1°C/W, Manufactured by Jiangsu Hailian Microelectronics Corp.	
	Potting material	<p>5299W-S, RTV silicone potting compound, White, Manufactured by Shanghai Hailian            New Material Co., Ltd.</p> <p>Alternate manufacturer:            1. TONSAN Adhesive, Inc.            2. Adarsha Specialty Chemicals Pvt Ltd            3. Fast to Advance Materials India Pvt. Limited            4. Sikasil            5. Hailian            6. Silanda</p> <p>Note: Alternate Potting material having same technical specifications and same material, only manufacturer name change as Declared by/m</p>	
	Adhesive for junction box	<p>HT90 6Z, High-performance RTV acariant, White paste, Manufactured by Shanghai            Hailian New Material Co., Ltd.</p> <p>Alternate manufacturer:</p>	

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		1. TONSAN Adhesive, Inc. 2. Adarsha Specialty Chemicals Pvt Ltd 3. Fasto Advance Materials India Pvt. Limited 4. Sikasil 5. Huitian 6. Silande <i>Note: Alternate Adhesive for junction box having same technical specification &amp; same material, only manufacturer name change as Declared by manufacturer.</i>	
	Additional material (e. g. insulation tape)...	Soldering Wire: NO CLEAN FLUX CORED SOLDER WIRE, Manufactured by Kester LLC Alternate manufacturer: 1. HYBRID METALS PVT LTD 2. Stannol 3. superior 4. Persang alloy industries pvt ltd 5. KOTHARI METSOL PVT. LTD. 6. Khanna Traders & Engineers <i>Note: Alternate Soldering wire having same technical specification &amp; same material, only manufacturer name change as Declared by manufacturer.</i>	

A1.5	MODULE DESIGN - MINIMUM DISTANCES	
	Between cells.....:	1.5mm
	Between cell and edge of laminate.....:	15mm
	Between any current carrying part and edge of laminate....:	26.5mm

A1.6	MODULE DESIGN - ELECTRICAL CONFIGURATION	
	Total number of cells.....:	156 for 156 Half cut cell family 144 for 144 Half cut cell family 132 for 132 Half cut cell family 120 for 120 Half cut cell family
	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
	No. of bypass diodes.....:	3

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

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**Annex 4: Statement of test uncertainty**

The total measuring uncertainty of Pmpp is  $\leq 2.47\%$

The total measuring uncertainty of Isc is  $\leq 2.35\%$

The total measuring uncertainty of Voc is  $\leq 0.84\%$

..... **End of test report** .....

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