




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

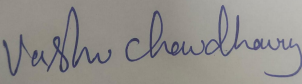


TC-16367

## TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/25-26/17924	DATE OF ISSUE:	11/01/2026
ULR NUMBER	ULR-TC163672600000349F		
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, India, 394110		
<b>TEST ITEM DESCRIPTION</b>			
PRODUCT NAME:	Solar PV Module		
DATE OF RECEIPT	15/10/2025	SAMPLE CONDITION:	OK
RECEIPT NUMBER	URS/LAB/MODULE(PV)/25-26/FE1DCE8C	NO. OF SAMPLE	3
TRADE MARK		SERIAL NUMBER	AS1025650TG00040 AS1025650TG00041 AS1025650TG00042
MODEL	Tested Model: AS-156TG-650		
RATINGS/SPECIFICATION	See the marking Label		
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	IEC 61701: 2020 (Severity 6)		
TEST START DATE	15/10/2025	TEST END DATE	11/01/2026
ENVIRONMENTAL CONDITIONS	23±5°C, ≤ 70%Rh		
<b>CONCLUSION</b>			
TEST RESULT	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



Vashu Dev Chaudhary  
Analyst



AUTHORIZED SIGNATURE



Paras Singh  
Vice President (Technical)

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 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.



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S. No	TEST PARAMETER (CLAUSE REFERENCE)	
1	Visual Inspection (MQT 01)	Testing Location: URS PRODUCTS AND TESTING PRIVATE LIMITED A-29, Sector 5, Noida-201301, India
2	Stabilization (MQT 19.1)	
3	Maximum power determination (MQT 02)	
4	Insulation test (MQT 03)	
5	Wet leakage current test (MST 17)	
6	Continuity test of equipotential bonding (MST 13)	
7	Salt mist corrosion test	
8	Bypass diode functionality test (MQT 18.2)	

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Analyst



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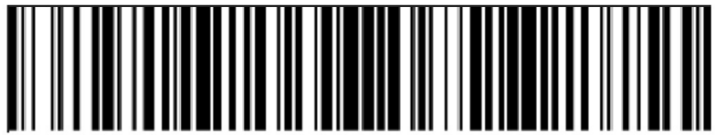
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**Attachment - 1 Copy of Marking Plate & Inside Laminate**  
**(Model No. Tested: AS-156TG-650)**

MODULE TYPE: AS-156TG-650		MADE IN INDIA	
Rated Power (Pmax)	: 650W	 ARMY SOLAR ENERGY PVT LTD ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT- 394110	All Values are measured at STC : 25°C Temp CoE, 1000WMSQ, AM 1.5 <b>Module Dimensions:</b> (2466 X 1134 X 30 in mm)  <b>Module Weight: 38.5Kgs</b>   <b>WARNING-ELECTRICAL HAZARD:</b> 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.
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		

 ARMY SOLAR ENERGY PVT LTD  ARMY SOLAR ENERGY PRIVATE LIMITED	<b>Model No. AS-156TG-650</b> <b>Nominal Wattage: 650W±2%</b>	<b>Year of Mfg: 2025</b> <b>Made in India</b> Module Efficiency: 23.24%
	 <b>AS1025650TG00040</b>	

TESTED BY

*Vashu Chaudhary*

Vashu Dev Chaudhary  
Analyst



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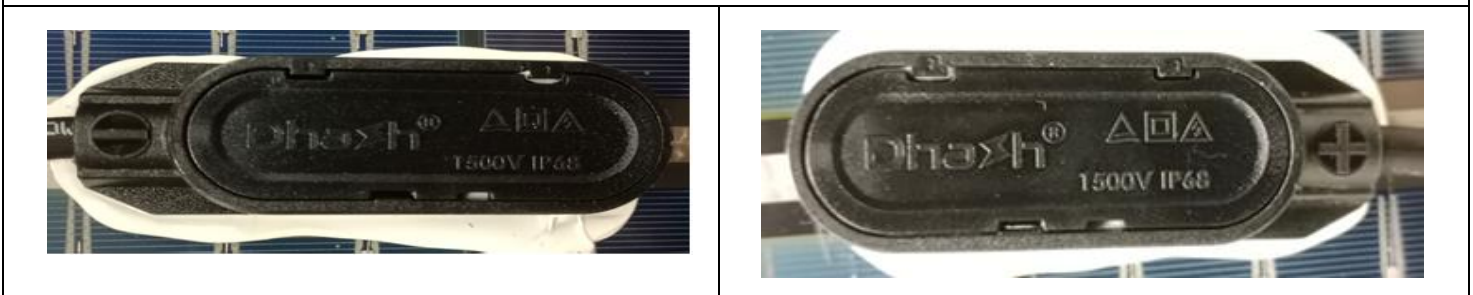
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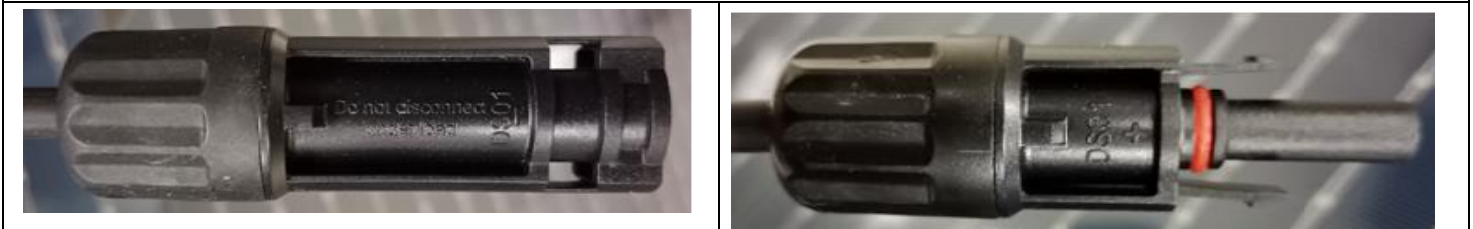
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**Polarity marking on Junction Box**



**Polarity marking on Connectors**



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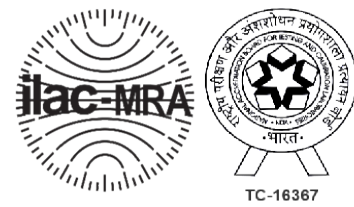
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**CUSTOMER CITY:** SURAT

GENERAL INFORMATION	
<b>Test item particulars:</b>	
Accessories and detachable parts included in the evaluation.....:	N/A
Options included.....:	N/A
<b>Abbreviations used in the report:</b>	
Vmp–Maximum power voltage	Imp–Maximum power current
Voc–Open circuit voltage	Isc–Short circuit current
FF–Fill Factor	Pmp –Maximum power
STC –Standard Test Conditions	
<b>Possible test case verdicts:</b>	
-test case does not apply to the test object.....:	N/A (Not Applicable)
-test object does meet the requirement.....:	Pass (P)
-test object does not meet the requirement.....:	Fail (F)

General remarks:  
 The test results presented in this report relate only to the object tested.  
 This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.  
 "(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 point is used as the decimal separator.

TESTED BY

Vashu Dev Chaudhary  
 Analyst



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 Vice President (Technical)

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**General Product Information:**

PV module type reference.....: **AS-156TG-650**

Product Electrical Ratings at STC

Nominal maximum power (Pmax).....: 650W

Nominal open circuit voltage at (Voc).....: 57.00V

Nominal short circuit current at (Isc).....: 14.83A

Nominal maximum power voltage (Vpm).....: 46.09V

Nominal maximum power current (Ipm).....: 14.11A

Product Safety Ratings

Maximum system voltage.....: 1500V DC

Maximum over-current protection rating.....: 30A

Safety application class.....: CLASS A

Safety class in accordance with IS 61140.....: CLASS II

Fire safety class.....: CLASS C

Module Dimension(mm).....: 2466 x 1134x 30

Model	Sample #	Serial Number
AS-156TG-650	1	AS1025650TG00040
	2	AS1025650TG00041
	3	AS1025650TG00042

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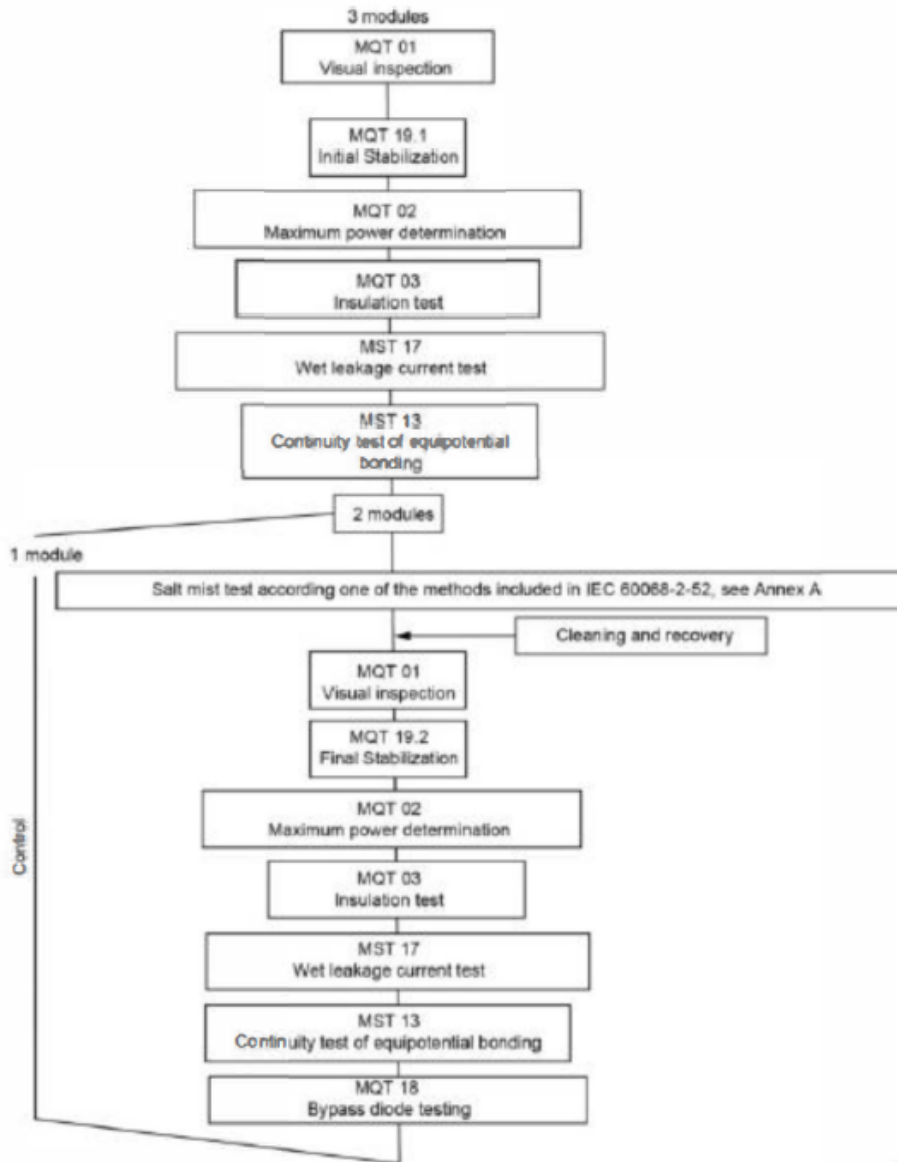
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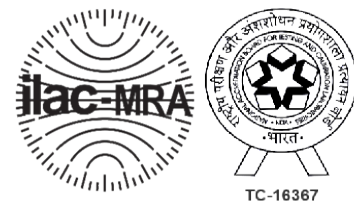
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TABLE 6.1: Initial Visual inspection (MQT 01)		p
Test Date [YYYY-MM-DD] .....	2025-10-15	—
Sample #	Nature and position of initial findings – comments or attach photos	—
1	No major visual defects found	p
2	No major visual defects found	p
3	No major visual defects found	p
Supplementary information: N/A		

TABLE 6.1: MQT 19.1 Initial Stabilization							P
Light exposure method .....							<input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight
Abbreviation: Regarding light source "S" for Solar simulator and "N" for Natural sunlight							
Stabilization criterion x per IEC 61215-1-x .....							1
Sample #	1	Test Date (YYYY-MM-DD) start/end .....			2025-10-15 to 2025-10-17 / 2025-10-18 to 2025-10-19		
Test Cycle	Integrated irradiation (kWh/m <sup>2</sup> )	Irradiance (W/m <sup>2</sup> )	Module temperature (°C)	Resistive Load	Pmax (W) at the end of cycle	(Pmax-Pmin) / Paverage(%)	Stable (Yes/No)
Initial	--	--	--	--	651.87	--	--
1	5	800-1000	N/A	Yes	648.46	--	--
2	5	800-1000	N/A	Yes	647.94	0.61	Yes
Sample #	2	Test Date (YYYY-MM-DD) start/end .....					
Test Cycle	Integrated irradiation (kWh/m <sup>2</sup> )	Irradiance (W/m <sup>2</sup> )	Module temperature (°C)	Resistive Load	Pmax (W) at the end of cycle	(Pmax-Pmin) / Paverage(%)	Stable (Yes/No)
Initial	--	--	--	--	651.59	--	--
1	5	800-1000	N/A	Yes	648.62	--	--
2	5	800-1000	N/A	Yes	647.97	0.56	Yes
Sample #	3	Test Date (YYYY-MM-DD) start/end .....					
Test Cycle	Integrated irradiation (kWh/m <sup>2</sup> )	Irradiance (W/m <sup>2</sup> )	Module temperature (°C)	Resistive Load	Pmax (W) at the end of cycle	(Pmax-Pmin) / Paverage(%)	Stable (Yes/No)
Initial	--	--	--	--	651.96	--	--
1	5	800-1000	N/A	Yes	648.55	--	--
2	5	800-1000	N/A	Yes	647.75	0.65	Yes

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*Vashu chandhary*

Vashu Dev Chaudhary  
Analyst



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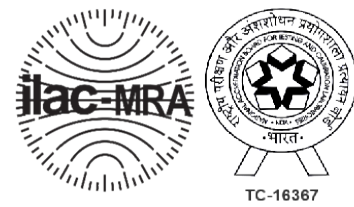


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TABLE 6.1 : Initial Maximum power determination (MQT 02)							p
Test Date [YYYY-MM-DD] .....			2025-10-20				—
Test method .....			<input checked="" type="checkbox"/> Simulator		<input type="checkbox"/> Natural sunlight		—
Sample #	Isc [A]	Voc [V]	I <sub>max</sub> [A]	V <sub>max</sub> [V]	P <sub>max</sub> [W]	FF [%]	Result
1	14.244	57.15	14.128	46.14	651.87	80.08	--
2	14.226	57.12	14.125	46.13	651.59	80.19	--
3	14.232	57.14	14.127	46.15	651.96	80.17	--

Supplementary information: Stabilization (Irradiance exposure of >10KWh/m<sub>2</sub>) is done.

TABLE 6.1 : Initial Insulation test (MQT 03)				p
Test Date [YYYY-MM-DD] .....		2025-10-20		—
Test Voltage applied [V] .....		4000 for 1 min/1500 for 2 min		—
Size of module [m <sup>2</sup> ] .....		2.79		—
Required Resistance [MΩ].....		14.33		—
Sample #	Measured	Dielectric breakdown		Result
	mΩ	Yes (description)	No	
1	>1000	No dielectric breakdown	-	<b>P</b>
2	>1000	No dielectric breakdown		<b>P</b>
3	>1000	No dielectric breakdown		<b>P</b>

Supplementary information: Minimum requirement according to the standard is 40 MΩ m<sup>2</sup>

TABLE 6.1: Initial Wet leakage current test (MQT 17)				p
Test Date [YYYY-MM-DD] .....		2025-10-19		—
Test Voltage applied [V].....		1500V DC		—
Solution temperature [°C].....		23.1		—
Size of module [m <sup>2</sup> ] .....		2.79		—
Sample #	Measured [MΩ]	Required Resistance [MΩ]	Result	
1	>1000	14.33	<b>P</b>	
2	>1000	14.33	<b>P</b>	
3	>1000	14.33	<b>P</b>	

Supplementary information: Solution resistivity 2974 [Ω·cm]

TESTED BY

*Vashu chaudhary*

Vashu Dev Chaudhary  
Analyst



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TABLE 6.1 Continuity Test of Equipotential Bonding - MST 13 (Initial)			p
Test Date [YYYY-MM-DD].....:		2025-10-20	-
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 [ $\Omega$ ]	
1	0.47	0.006	p
2	0.42	0.005	p
3	0.38	0.005	p

Supplementary information: Nil

TABLE 6.2 Salt mist corrosion test (Severity 6)			P
Test Date [YYYY-MM-DD].....:		2025-10-21 to 2025-12-16	-
Maximum system voltage [VDC] .....		1500V DC	-
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: Final Visual inspection (MQT 01)			P
Test Date [YYYY-MM-DD] .....		2025-12-17	-
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

Supplementary information: N/A

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Vashu Dev Chaudhary  
Analyst



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TABLE 6.3: MQT 19.1 Final Stabilization							P
Light exposure method .....: <input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight							
Abbreviation: Regarding light source "S" for Solar simulator and "N" for Natural sunlight							
Stabilization criterion x per IEC 61215-1-x .....: 1							
Sample #	1	Test Date (YYYY-MM-DD) start/end .....:			2025-12-17 to 2025-12-18 / 2025-12-19 to 2025-12-20		
Test Cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Resistive Load	Pmax (W) at the end of cycle	(Pmax-Pmin) /Paverage(%)	Stable (Yes/No)
Initial	--	--	--	--	638.28	--	--
1	5	800-1000	N/A	Yes	635.95	--	--
2	5	800-1000	N/A	Yes	635.06	0.51	Yes
Sample #	2	Test Date (YYYY-MM-DD) start/end .....:					
Test Cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Resistive Load	Pmax (W) at the end of cycle	(Pmax-Pmin) /Paverage(%)	Stable (Yes/No)
Initial	--	--	--	--	635.66	--	--
1	5	800-1000	N/A	Yes	632.92	--	--
2	5	800-1000	N/A	Yes	632.08	0.57	Yes

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*Vashu chandhary*

Vashu Dev Chaudhary  
Analyst



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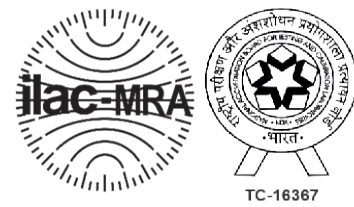


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TABLE 6.3: Maximum power determination (MQT 02) Final								P
Test Date [YYYY-MM-DD] .....				2025-12-22				—
Test method .....				<input checked="" type="checkbox"/> Simulator		<input type="checkbox"/> Natural sunlight		—
Sample #	Isc [A]	Voc [V]	I <sub>max</sub> [A]	V <sub>max</sub> [V]	P <sub>max</sub> [W]	FF [%]	Degradation [%]	Result
1	14.135	57.06	13.982	45.65	638.28	79.14	-2.08	--
2	14.121	57.08	13.882	45.79	635.66	78.86	-2.44	--
Supplementary information: Stabilization (Irradiance exposure of >10KWh/m <sup>2</sup> ) is done.								

TABLE 6.3: Final Insulation test (MQT 03)					P
Test Date [YYYY-MM-DD] .....			2025-12-22		—
Test Voltage applied [V] .....			4000 for 1 min/1500 for 2 min		—
Size of module [m <sup>2</sup> ] .....			2.79		—
Required Resistance [MΩ] .....			14.33		—
Sample #	Measured		Dielectric breakdown		Result
	MΩ		Yes (description)	No	
1	>1000		No dielectric breakdown	-	P
2	>1000		No dielectric breakdown		P
Supplementary information: Nil					

TABLE 6.3: Final Wet leakage current test (MQT 17)				P	
Test Date [YYYY-MM-DD] .....			2025-12-22		—
Test Voltage applied [V] .....			1500V DC		—
Solution temperature [°C] .....			23.3		—
Size of module [m <sup>2</sup> ] .....			2.79		—
Sample #	Measured [MΩ]		Required Resistance [MΩ]		Result
1	>1000		14.33		P
2	>1000		14.33		P
Supplementary information: Solution resistivity 2993[Ω-cm].					

TABLE: 6.3 Continuity Test of Equipotential Bonding - MST 13 (Final)				P	
Test Date [YYYY-MM-DD] .....			2025-12-22		-
Maximum system voltage [VDC] .....			1500V DC		-
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	0.34		0.004		P
2	0.29		0.003		P
Supplementary information: Nil					

TESTED BY

*Vashu chaudhary*

Vashu Dev Chaudhary  
Analyst



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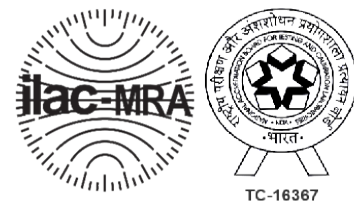
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TABLE 6.4: Bypass diode functionality test (MQT 18.2)		P
Test Date [YYYY-MM-DD] .....	2025-12-23	—
Sample #.....:	1	
	IV curve after shading	Result
Diode 1	Turn on	P
Diode 2	Turn on	P
Diode 3	Turn on	P
Supplementary information: N/A		

TABLE 6.4: Bypass diode functionality test (MQT 18.2)		P
Test Date [YYYY-MM-DD] .....	2025-12-23	—
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		

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**List of Annexes**

**Annex 1:** Equipments used

**Annex 2:** Photographs of EUT

**Annex 3:** BOM details

**Annex 1:** Equipments used

Equipment Used	
Description	Identification#
Sun simulator	URS/LAB/Lab/841
IV Curve tracer	URS/LAB/Lab/1046
Heat 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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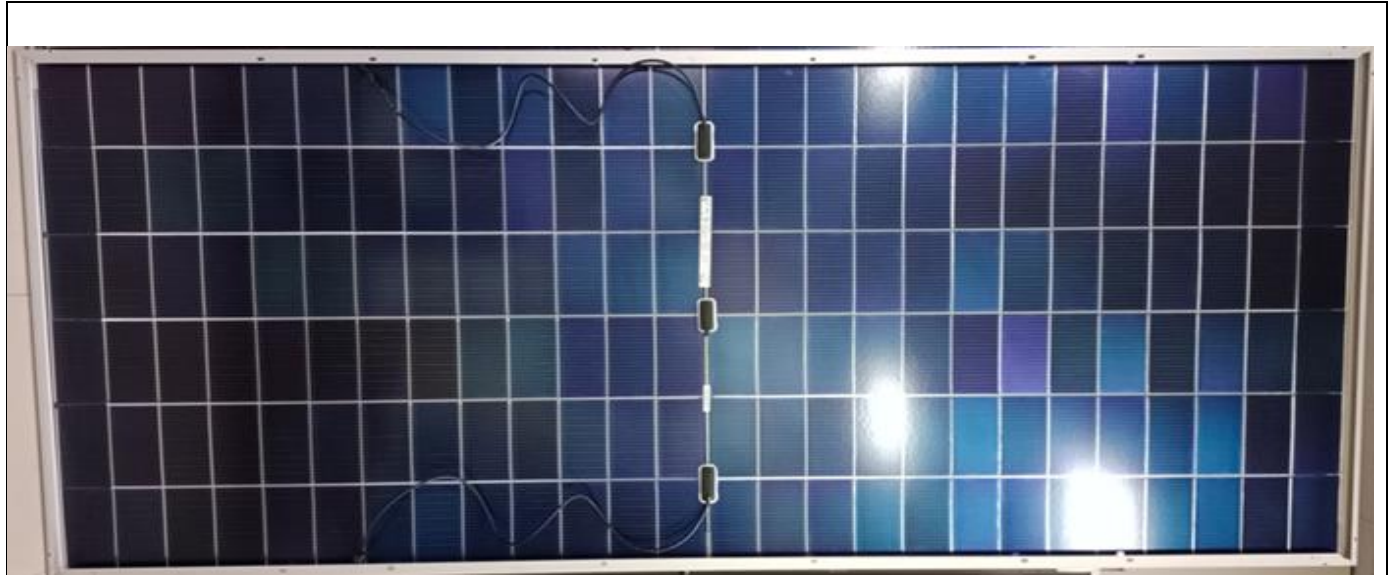
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**Annex 2: Photographs of EUT**

Photographs of EUT



Rear view



Front view

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Annex 3: BOM Details

Table with 2 columns: A1.1, MODULE TYPE/S. Row 1: Model Tested: AS-156TG-650(Representative & retested Model)

Table with 2 columns: A1.2, MODULE DESIGN -DIMENSIONS. Row 1: 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

Table with 4 columns: A1.3, SOLAR CELL, Cell type reference, Cell dimensions L x W x T (± %) [mm], Cell thickness [µm], Cell area [cm²]. Rows include Main and Alternate specifications for CZJT-182M-16D1 and M18316BTP50 cells.

Table with 2 columns: A1.4, IDENTIFICATION OF MATERIALS. Row 1: Front cover.....: High transmission low iron tempered AR Coated glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD. Includes a list of 15 alternate manufacturers.

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Vashu Dev Chaudhary Analyst



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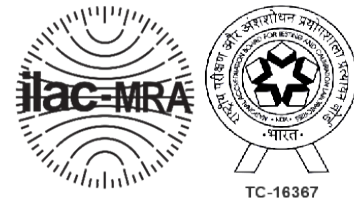
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Table with 4 columns: Clause, Requirement+Test, Result-Remark, Verdict

Main test report table with 4 columns: Clause, Requirement+Test, Result-Remark, Verdict. Rows include Rear cover, Encapsulation material, and Frame parts.

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Clause	Requiremet+ Test	Result-Remark	Verdict
		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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Clause	Requirement+Test	Result-Remark	Verdict
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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. Arbtal 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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Clause	Requirement+Test	Result-Remark	Verdict
--------	------------------	---------------	---------

		<i>only manufacturer name change as Declared by manufacturer.</i>	
Junction box.....		<b>Main:</b> PV-HT021x, Rated Voltage: 1500VDC, Current: 30A, IP68, Ambient temperature: -40°C to +85°C, Manufactured by Jiangsu Haitian Microelectronics Corp. Tested by TUV SUD, Certificate no.: B 096995 0002	BOM 1
		<b>Alternate:</b> DSJB12y (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	BOM 2
Cable.....		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 Haitian Microelectronics Corp. Tested by TUV Rheinland, test report no. 50308660 001	BOM 1
		<b>Alternate:</b> 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	BOM 2
Connector.....		PV-HT03x(x= 0 or 1), Rated Voltage: 1500VDC, Rated current: 45A, IP68, Ambient temperature: -40°C to +85°C, Manufactured by Jiangsu Haitian Microelectronics Corp. Tested by TUV SUD, Certificate no.: B 096995 0003	BOM 1
		<b>Alternate:</b> DS01, 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	BOM 2
Bypass diode.....		MK5045, IF(AV)=35A, VRRM= 45V, Tj = -55°C to +200°C, RθJ-C: 1°C/W, Manufactured by Jiangsu Haitian Microelectronics Corp.	
Potting material.....		5299W-S, RTV silicone potting compound, White, 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 Potting material having same technical specification as            material, only manufacturer name change as Declared by/m</i>	
Adhesive for junction box.....		HT906Z, High-performance RTV sealant, White paste, Manufactured by Shanghai Huitian New Material Co., Ltd. <b>Alternate manufacturer:</b>	

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Table with 4 columns: Clause, Requirement+Test, Result-Remark, Verdict

Table with 2 columns: Requirement+Test, Result-Remark. Contains lists of adhesive and soldering wire manufacturers.

Table A1.5: MODULE DESIGN - MINIMUM DISTANCES. Rows for distances between cells, edges, and current carrying parts.

Table A1.6: MODULE DESIGN - ELECTRICAL CONFIGURATION. Rows for total number of cells, serial-parallel connection, cells per bypass diode, and number of bypass diodes.

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

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