

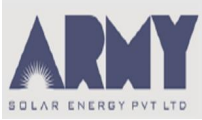


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 A-29, Sector-5, Noida-201301
 T +91 (120) 4516264-65 F +91 (120) 4750296
 E info@urs-labs.com W www.urs-labs.com
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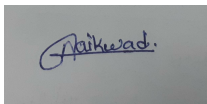


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TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/25-26/17923		DATE OF ISSUE:	11/01/2026
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			
TEST ITEM DESCRIPTION				
PRODUCT NAME:	Solar PV Module			
DATE OF RECEIPT	10/11/2025	SAMPLE CONDITION:	OK	
RECEIPT NUMBER	URS/LAB/PV MODULE PID-62804/25-26/1B0C3FE9	NO. OF SAMPLE	5	
TRADE MARK		SERIAL NUMBER	AS1025650TG00044 AS1025650TG00045 AS1025650TG00046 AS1025650TG00047 AS1025650TG00048	
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			
TEST SPECIFICATION				
TEST METHOD / STANDARD	IEC TS 62804-1:2015 and as per MNRE guidelines.			
TEST START DATE	10/11/2025	TEST END DATE	11/01/2026	
ENVIRONMENTAL CONDITIONS	223±5°C, ≤70%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



Aniket Nandkumar Gaikwad
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 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 NAME: ARMY SOLAR ENERGY PRIVATE LIMITED

CUSTOMER CITY: SURAT

TEST REPORT IEC TS 62804 -1: 2015 Photovoltaic (PV) modules – Test methods for the detection of potential – induced degradation – Part 1: crystalline silicon	
Report Reference No.....:	URS/LAB/02/RID/25-26/17923
Date of issue.....:	11/01/2026
Total number of pages.....:	22
Testing Laboratory.....:	URS PRODUCTS AND TESTING PRIVATE LIMITED
Address.....:	A-29, Sector 5, Noida-201301, India
Applicant's name.....:	ARMY SOLAR ENERGY PRIVATE LIMITED
Address.....:	NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, India, 394110
Test specification.....:	
Standard.....:	IEC TS 62804 -1: 2015 and as per MNRE guidelines.
Test item description.....:	Solar PV Module
Trade Mark/Brand.....:	
Manufacturer.....:	ARMY SOLAR ENERGY PRIVATE LIMITED
Factory.....:	NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, India, 394110
Model/Type reference.....:	AS-156TG-650 (TESTED MODEL)
Ratings.....:	See the marking Label

TESTED BY

Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY

Paras Singh
Vice President (Technical)



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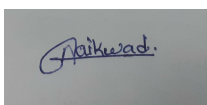
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CUSTOMER NAME: ARMY SOLAR ENERGY PRIVATE LIMITED

CUSTOMER CITY:SURAT

Summary of testing:	
Tests performed (name of test and test clause):	Testing Location: URS PRODUCTS AND TESTING PRIVATE LIMITED A-29, Sector 5, Noida-201301, India
Preconditioning	
10.1 Visual Inspection (Initial)	
10.2 Maximum Power Determination (Initial)	
10.15 Wet leakage current test (Initial)	
MST 13 Ground Continuity Test	
PID stress test 3 cycles (1 cycle = 96h) Clause - 4.3.2	
10.2 Maximum Power Determination After(1st CYCLE, 2 nd CYCLE ,3 rd CYCLE)	
10.15 Wet leakage current test After (1st CYCLE, 2 nd CYCLE ,3 rd CYCLE)	
10.1 Visual Inspection After (1st CYCLE, 2 nd CYCLE ,3 rd CYCLE)	

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Aniket Nandkumar Gaikwad
Analyst

AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



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CUSTOMER CITY:SURAT

Copy of Marking Plate

(Model No. Tested: AS-156TG-650)

MODULE TYPE: AS-156TG-650		MADE IN INDIA	
Rated Power (Pmax)	: 650W	 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 Cell, 1000W/MSQ, AM 1.5 Module Dimensions: (2466 X 1134 X 30 in mm) Module Weight: 38.5Kgs 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.
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 PRIVATE LIMITED

Model No. AS-156TG-650
 Nominal Wattage: 650W±2%

Year of Mfg: 2025
 Made in India
 Module Efficiency: 23.24%



AS1025650TG00044

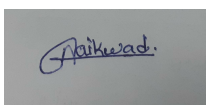
Polarity marking on Junction Box



Polarity marking on Connectors



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Aniket Nandkumar Gaikwad
 Analyst



AUTHORIZED SIGNATURE



Paras Singh
 Vice President (Technical)

ISSUED BY



Paras Singh
 Vice President (Technical)



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CUSTOMER CITY: SURAT

GENERAL INFORMATION	
Test item particulars:	
Accessories and detachable parts included in the evaluation.....:	N/A
Options included.....:	N/A
<u>Abbreviations used in the report:</u>	
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	
<u>Possible test case verdicts:</u>	
-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.	

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Aniket Nandkumar Gaikwad
Analyst



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ISSUED BY

Paras Singh
Vice President (Technical)



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CUSTOMER NAME: ARMY SOLAR ENERGY PRIVATE LIMITED

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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

Module group assignment:

Model	Sample #	Serial number
AS-156TG-650	1	AS1025650TG00044
	2	AS1025650TG00045
	3	AS1025650TG00046
	4	AS1025650TG00047
	5	AS1025650TG00048

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Aniket Nandkumar Gaikwad
Analyst



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Paras Singh
Vice President (Technical)

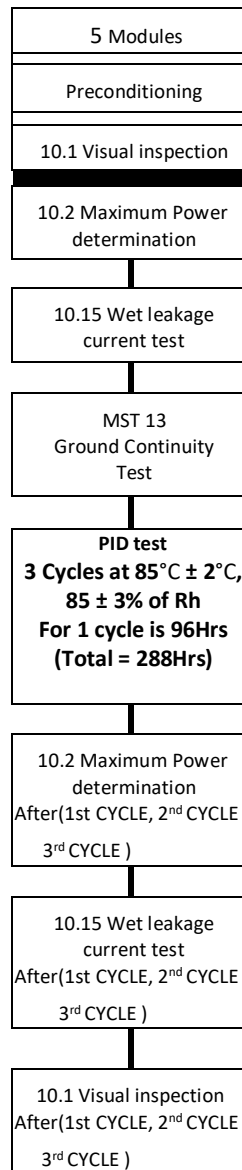
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Paras Singh
Vice President (Technical)



10	TEST PROCEDURES
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TEST PROCEDURES



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Aniket Nandkumar Gaikwad
 Analyst

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Paras Singh
 Vice President (Technical)

ISSUED BY

Paras Singh
 Vice President (Technical)



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CUSTOMER CITY:SURAT

Clause	Requirement + Test	Result-Remark	Verdict
4	MARKING		P
	Name, monogram or symbol of manufacturer.....:	ARMY SOLAR ENERGY PRIVATE LIMITED	P
	Type or model number.....:	AS-156TG-650	P
	Serial number.....:	Marked	P
	Polarity of terminals or leads.....:	Marked	P
	Maximum system voltage.....:	1500V DC	P
	The date and place of manufacturer.....:	Marked	P
	Initial examination	All Modules	P
10	Preconditioning.....:	5.0 kWh/m ²	P
10.1	Visual inspection.....:	See table 10.1	P
10.2	Maximum power determination.....:	See table 10.2	P
10.15	Wet leakage current test.....:	See table 10.15	P
MST 13	Ground continuity test.....:	See table MST 13	P
4.3.2	PID Test: 3 Cycles at 85°C ± 2°C, 85 ± 3% of Rh for 1 cycle is 96Hrs – Total = 288Hrs	See table Test Condition: 3 Cycles at 85°C ± 2°C, 85 ± 3% of Rh, for 1 cycle is 96Hrs – Total = 288Hrs	P

TESTED BY

Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY

Paras Singh
Vice President (Technical)



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A-29, Sector-5, Noida-201301
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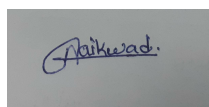
Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict

Table 10.1 Initial: TABLE: Visual inspection -Initial after Preconditioning. Includes test date, sample numbers, and findings.

Table 10.2 Initial: TABLE: Maximum power determination -Initial after Preconditioning. Includes test date, module temperature, irradiance, and power parameters.

Table 10.15 Initial: TABLE: Wet leakage current test - Initial after Preconditioning. Includes test date, voltage, resistivity, and leakage current measurements.

TESTED BY



Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5, Noida-201301
T +91 (120) 4516264-65 F +91 (120) 4750296
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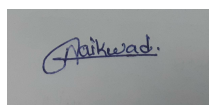
CUSTOMER CITY:SURAT

Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict. Contains '10.4 Initial' section with 'TABLE: Ground Continuity Test - MST 13 - Initial after Preconditioning' and a data table for samples 1-5.

Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict. Contains '4.3.2' section with 'TABLE: Potential Induced Degradation Test- Cycle 1' and a data table for samples 2-5.

Table with 9 columns: Sample#, Voc[V], Vmp[V], Isc[A], Imp[A], Pmp [W], FF[%], Degradation [%], Limit[%]. Contains '10.2 Final' section with 'TABLE: Maximum power determination - after Cycle 1' and a data table for samples 1-5.

TESTED BY



Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5, Noida-201301
T +91 (120) 4516264-65 F +91 (120) 4750296
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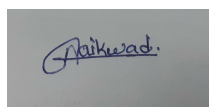
Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict

Table 10.15: TABLE: Wet leakage current test – after Cycle 1. Includes test date, voltage, resistivity, surface tension, temperature, and sample results.

Table 10.1: TABLE: Visual inspection – after Cycle 1. Includes test date, sample numbers, and nature of findings.

Table 4.3.2: TABLE: Potential Induced Degradation Test- Cycle 2. Includes test date, chamber conditions, and sample results.

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Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5, Noida-201301
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Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict

Table 10.2 Final: TABLE: Maximum power determination -After Cycle 2. Includes test parameters like Test Date, Module temperature, Irradiance and a data table for Sample# 1-5 with Voc, Vmp, Isc, Imp, Pmp, FF, Degradation, and Limit values.

Supplementary information: Total Degradation Observed: Cycle 1 to Cycle 2 (in Table) Initial to Cycle 2:- 1: (-0.43) , 2: (-1.09) , 3: (-1.18) , 4: (-1.25) , 5: (-1.11)

Table 10.15: TABLE: Wet leakage current test - After Cycle 2. Includes test parameters like Test Date, Test Voltage, Solution resistivity, Surface tension, and a data table for Sample# 1-5 with Measured and Limit values.

Supplementary information: Area of module 2.79[m²].

Table 10.1: TABLE: Visual inspection - After Cycle 2. Includes Test Date and a table for Sample# 1-5 with Nature and position of initial findings.

Supplementary information: Nil

TESTED BY

Aniket Nandkumar Gaikwad

Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY

Paras Singh

Paras Singh
Vice President (Technical)



URS PRODUCTS AND TESTING PRIVATE LIMITED

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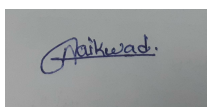
Table with 4 columns: Clause, Requirement + Test, Result-Remark, Verdict

Table 4.3.2: TABLE: Potential Induced Degradation Test- Cycle 3. Includes test date, chamber conditions, and sample results.

Table 10.2 Final: TABLE: Maximum power determination -After Cycle 3. Includes test date, module temperature, irradiance, and detailed sample performance data.

Table 10.15: TABLE: Wet leakage current test - After Cycle 3. Includes test date, voltage, solution properties, and leakage current measurements.

TESTED BY



Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



URS PRODUCTS AND TESTING PRIVATE LIMITED
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Clause	Requirement + Test	Result-Remark	Verdict
10.1	TABLE: Visual inspection - After Cycle 3		P
Test Date [MM/DD/YYYY].....:	11/01/2025		-
Sample #	Nature and position of initial findings – comments or attach photos		-
1(CONTROL)	No visual defect		P
2	No visual defect		P
3	No visual defect		P
4	No visual defect		P
5	No visual defect		P
Supplementary information: Nil			

TESTED BY

Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



ISSUED BY

Paras Singh
Vice President (Technical)



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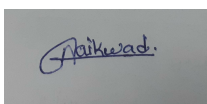
List of Annexes

- Annex 1: Statement of the estimated uncertainty of the test results
- Annex 2: Photographs of EUT
- Annex 3 : BOM

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

For Pmp – Measurement uncertainty is $\pm 2.062\%$
 For Isc – Measurement uncertainty is $\pm 1.583\%$
 For Voc – Measurement uncertainty is $\pm 1.832\%$

TESTED BY



Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



ISSUED BY



Paras Singh
Vice President (Technical)



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CUSTOMER NAME: ARMY SOLAR ENERGY PRIVATE LIMITED

CUSTOMER CITY: SURAT

Annex 2: Photographs of EUT



Rear view



Front view

TESTED BY

Aniket Nandkumar Gaikwad

Aniket Nandkumar Gaikwad
Analyst



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Parag Singh
Vice President (Technical)

ISSUED BY

Parag Singh

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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



ISO/IEC 17025:2017
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Description of module construction:

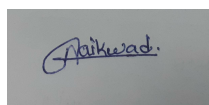
Table with 2 columns: ID (A1.1), Description (MODULE TYPE/S, Model Tested: AS-156TG-650(Representative & retested Model))

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

Table with 2 columns: ID (A1.4), Description (IDENTIFICATION OF MATERIALS, High transmission low iron tampered AR Coated glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD. Alternate manufacturer: 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. Note: Alternate Front cover having same materials, same production process, and

TESTED BY



Aniket Nandkumar Gaikwad
Analyst



AUTHORIZED SIGNATURE



Paras Singh
Vice President (Technical)

ISSUED BY



Paras Singh
Vice President (Technical)



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Table with 2 columns: Component Name and Description. Rows include 'Rear cover' and 'Encapsulation material' with detailed specifications and alternate manufacturer lists.

Table with 2 columns: Component Name and Description. Row includes 'Frame parts' with specifications and alternate manufacturer lists.

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Table with 3 columns: Description, Material/Manufacturer, and Notes. Rows include: 13-35. Jiangyin Tianmu Green Energy Technology Co.,Ltd; Mounting parts; Adhesive for frame; Adhesive for frame; Cell connector.

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		<p>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</p> <p><i>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.</i></p>
	String connector.....:	<p>Sn60%Pb40%, Copper component: >99.99%, Dimension: 0.40 ±0.010mm*4±0.10mm, Manufactured by TaiCang JuRen PV Material Co.,Ltd</p> <p>Alternate manufacturer:</p> <p>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</p> <p><i>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.</i></p>

	Fluxing agent.....:	<p>952-S, Low-Solids No-Clean Flux, Manufactured by Kester</p> <p>Alternate manufacturer:</p> <p>1. superior 2. asahi 3. Arbital 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</p> <p><i>Note: Alternate Fluxing agent having same technical specification & same material,</i></p>
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TESTED BY



AUTHORIZED SIGNATURE

ISSUED BY



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Analyst

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<i>only manufacturer name change as Declared by manufacturer.</i>		
Junction box.....	Main: 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
	Alternate: 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 ² , 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
	Alternate: 62390 IEC 131, 1x4.0mm ² , 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
	Alternate: 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, V _{RRM} = 45V, T _j = -55°C to +200°C, R _{θJ-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. Alternate manufacturer: 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 technic spe & ame material, only manufacturer name change as Declare</i>
Adhesive for junction box.....	HT906Z, High-performance RTV sealant, White paste, Manufactured by Shanghai Huitian New Material Co., Ltd. Alternate manufacturer:

TESTED BY

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	<ol style="list-style-type: none"> 1. TONSAN Adhesive, Inc. 2. Adarsha Specialty Chemicals Pvt Ltd 3. Fasto Advance Materials India Pvt. Limited 4. Sikasil 5. Huitian 6. Silande <p><i>Note: Alternate Adhesive for junction box having same technical specification & same material, only manufacturer name change as Declared by manufacturer.</i></p>
Additional material (e. g. insulation tape)....:	<p>Soldering Wire: NO CLEAN FLUX CORED SOLDER WIRE, Manufactured by Kester LLC</p> <p>Alternate manufacturer:</p> <ol style="list-style-type: none"> 1. HYBRID METALS PVT LTD 2. Stannol 3. superior 4. Persang alloy industries pvt ltd 5. KOTHARI METSOL PVT. LTD. 6. Khanna Traders & Engineers <p><i>Note: Alternate Soldering wire having same technical specification & same material, only manufacturer name change as Declared by manufacturer.</i></p>

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

*AS PER CUSTOMER REQUEST

--END OF TEST REPORT--

TESTED BY

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Analyst



AUTHORIZED SIGNATURE



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Vice President (Technical)

ISSUED BY

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Vice President (Technical)