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DOC No. : 25E5A27N_1 A-29, Sector 5, Noida, Gautam Buddha Nagar, Uttar
Telephone : +91 9871062220 Pradesh, India - 201301
FAX : -
E-Mail : [testing.a29@urs-
labs.com](mailto:testing.a29@urs-labs.com)
BO Code : NA

**Test REPORT AS PER : IS/IEC 61730 : PART 1
(2004)****QR Code/Barcode : 232520CRS****REPORT NO : SC25SPI00948_1**

DATE : 12 Jun, 2025

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address : ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN
PANETHA ROAD, SURAT, NA, GUJARAT, India -
394110

b) Nature of sample : -

c) Grade/Variety/Type/Class Size etc : NA

d) Declare values, if any : -

e) Batch No. & Date of Manufacture : /

f) Quantity : 1

g) Date of Receipt : 03 Apr, 2025

h) BIS Seal : Verified by Sample Cell

i) IO's Signature : Verified by Sample Cell

j) Any other Information / Expiry Date, If any : /

k) Date of Commencement of Testing : 16 Apr, 2025

l) Date of Completion of Testing : 11 Jun, 2025

m) Section Code : 25E5A27N

n) Section Report No. : 25E5A27N_1

o) Report Type : New

p) Reference Report No. :

q) Remarks :

Anjali Kanojia
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 12 Jun, 2025 10:53 AM

1.

This is a Computer Generated Report.

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PART B. SUPPLEMENTARY INFORMATION

- | | |
|--|----------------|
| 1. Reference to sampling procedure, wherever applicable. | Not Applicable |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any. | Not Applicable |
| 3. NABL Report required ? | Yes |

Paras Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 11 Jun, 2025 19:52 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	12		-	-	-	-	Satisfactory (Refer to attachment).
2	11	Marking	-	-	-	-	Satisfactory (Refer to attachment).
3	10	Field wiring compartments with covers	mm, Cu. cm.	-	-	-	Satisfactory (Refer to attachment).
4	9	Creepage and clearance distances	mm	-	-	-	Satisfactory (Refer to attachment).
5	8	Bonding and grounding	Ω	-	-	-	Satisfactory (Refer to attachment).
6	7	Connections	mm, °C. or certificate verification	-	-	-	Satisfactory (Refer to attachment).
7	6	Internal wiring and current-carrying parts	mm sq., mm. or certificate verification	-	-	-	Satisfactory (Refer to attachment).
8	5	Polymeric materials	°C, mm. or certificate verification	-	-	-	Satisfactory (Refer to attachment).
9	4	Construction requirements	-	-	-	-	Satisfactory (Refer to attachment).
10	3	Application classes	-	-	-	-	Satisfactory (Refer to attachment).

Paras Singh
OIC Electrical
 (Authorized Signatory)
 Authorized on: 11 Jun, 2025 19:52 PM

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Section Report No. : 25E5A27N_1

IS/IEC 61730 : PART 1 (2004)

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PART D. REMARKS

Paras Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 11 Jun, 2025 19:52 PM

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CIN NO U21014UP1987PTC008956



SUMMARY OF TEST REPORT

TEST REPORT NO:
SC25SPI00948_1

DATED:11/06/2025

(Number of pages in test report: Page no. 01 to 58)

URS Ref. : URS/LAB/02/RID/25-26/4233

TEST FORMAT AS PER IS/IEC 61730-1:2004 (First Edition) + A1:2017 + A2:2017

1. Name of Manufacturer: ARMY SOLAR ENERGY PRIVATE LIMITED
2. Product: Crystalline silicon terrestrial photovoltaic (PV) modules (Si wafer based).
3. Model(s): **Model Tested: AS-156TG-650 (Representative & retested Model) (156 Cut cell family)**

Series Model:

156 Cut cell family with 1500V system voltage:

AS-156TG-645, AS-156TG-640, AS-156TG-635, AS-156TG-630, AS-156TG-625,
AS-156TG-620, AS-156TG-615, AS-156TG-610, AS-156TG-605,

144 Cut cell family with 1500V system voltage:

AS-144TG-600, AS-144TG-595, AS-144TG-590, AS-144TG-585, AS-144TG-580,
AS-144TG-575, AS-144TG-570, AS-144TG-565, AS-144TG-560, AS-144TG-555,
AS-144TG-550, AS-144TG-545, AS-144TG-540

132 Cut cell family with 1500V system voltage:

AS-132TG-535, AS-132TG-530, AS-132TG-525, AS-132TG-520, AS-132TG-515,
AS-132TG-510, AS-132TG-505, AS-132TG-500, AS-132TG-495, AS-132TG-490

120 Cut cell family with 1500V system voltage:

AS-120TG-485, AS-120TG-480, AS-120TG-475, AS-120TG-470, AS-120TG-465,
AS-120TG-460, AS-120TG-450, AS-120TG-445, AS-120TG-440

4. Model differences provided (if applicable): Yes
5. Model differences verified as per MNRE Guidelines for series formulation: Yes





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6. Test Results:			
SL. NO	TEST REQUIREMENT	CLAUSE	Verdict
1	Application Classes	3	P
2	Construction Requirements	4	P
3	Polymeric Materials	5	P
4	Internal Wiring And Current-Carrying Parts	6	P
5	Connections	7	P
6	Bonding And Grounding	8	P
7	Creepage and clearance distances	9	P
8	Field Wiring Compartments With Covers	10	P
9	Marking	11	P
10	Requirements for supplied documents	12	P

General Information:

The conformity certificates of components/parts are verified to ensure complete testing of products under test and details regarding harmonized IEC standards (where IS standards are not available) are also provided in the list of components/parts (description of module construction) wherever applicable.

CONCLUSION:

- 1.) Sample meets all relevant requirements of IS/IEC 61730-1:2004 (First Edition) + A1:2017 + A2:2017
- 2.) Sample fails to meet the following test requirements: N/A

I, hereby undertake that the verdict stated in the test reports for all the test matches with the test results. The sample meets all relevant requirements stated above of IS/IEC61730-1:2004 (First Edition) + A1:2017 + A2:2017.

(Signature of Authorized person with Stamp)



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TEST REPORT
IS/IEC 61730-1 : 2004 /
A1:2017+A2:2017
PV Module Safety Qualification
Part 1: Requirements for construction

Report Reference No. :	SC25SPI00948_1
Date of issue :	11/06/2025
Total number of pages	58
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, 394110
Test specification:	
Standard	IS/IEC 61730-1 : 2004 / A1:2017+A2:2017
Test procedure	Compliance Report
Non-standard test method	N/A
Test Report Form No:	IS/IEC61730-1_V1.0
Test Report Form(s) Originator	Bureau of Indian Standards
Master TRF	Dated: 19/02/2018
Test item description:	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules (Si Wafer Based)
Trade Mark	
Manufacturer Name	ARMY SOLAR ENERGY PRIVATE LIMITED
Manufacturer Address	NEW BLOCK NO. 119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, 394110
Model/Type reference	Model Tested: AS-156TG-650 (Representative & retested Model) (156 Cut cell family)
	Series Model:
	156 Cut cell family with 1500V system voltage:
	AS-156TG-645, AS-156TG-640, AS-156TG-635, AS-156TG-630, AS-156TG-625, AS-156TG-620, AS-156TG-615, AS-156TG-610, AS-156TG-605,
	144 Cut cell family with 1500V system voltage:
	AS-144TG-600, AS-144TG-595, AS-144TG-590, AS-144TG-585, AS-144TG-580, AS-144TG-575, AS-144TG-570, AS-144TG-565, AS-144TG-560, AS-144TG-555, AS-144TG-550, AS-144TG-545, AS-144TG-540
	132 Cut cell family with 1500V system voltage:
	AS-132TG-535, AS-132TG-530, AS-132TG-525, AS-132TG-520, AS-132TG-515, AS-132TG-510, AS-132TG-505, AS-132TG-500, AS-132TG-495, AS-132TG-490
	120 Cut cell family with 1500V system voltage:
	AS-120TG-485, AS-120TG-480, AS-120TG-475, AS-120TG-470, AS-120TG-465, AS-120TG-460, AS-120TG-450, AS-120TG-445, AS-120TG-440
Ratings	See copy of Marking label and General product information.
Other Documents submitted	





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Testing procedure and testing location:

Testing Laboratory

URS PRODUCTS AND TESTING PRIVATE LIMITED

Testing location/ address

A-29, Sector 5, Noida-201301, India

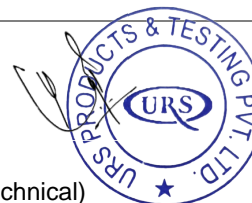
Tested by (name + signature).....

Vikas

Vikas , Analyst



Approved by (+ signature)



Paras Singh , Vice President (Technical)

Issued by (+ signature)

Paras Singh , Vice President (Technical)



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List of Attachments (including a total number of pages in each attachment)– Photographs and Specification of PV modules 53 to 58

Summary of testing:		
Tests performed (name of test and test clause):	Testing location:	
3 Application Classes	A-29, Sector 5, Noida-201301, India	
4 Construction Requirements		
5 Polymeric Materials		
6 Internal Wiring and Current-Carrying Parts		
7 Connections		
8 Bonding and Grounding		
9 Creepage and Clearances Distances		
10 Field Wiring Compartments With Covers		
11 Marking		
12 Requirements For Supplied Documents		
The product fulfils the requirements of IS/IEC 61730-1:2004 +A1:2017+A2:2017		





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Copy of marking plate:

(Representative Model: AS-156TG-650)(BOM 1)

MODULE TYPE: AS-156TG-650

MADE IN INDIA

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



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

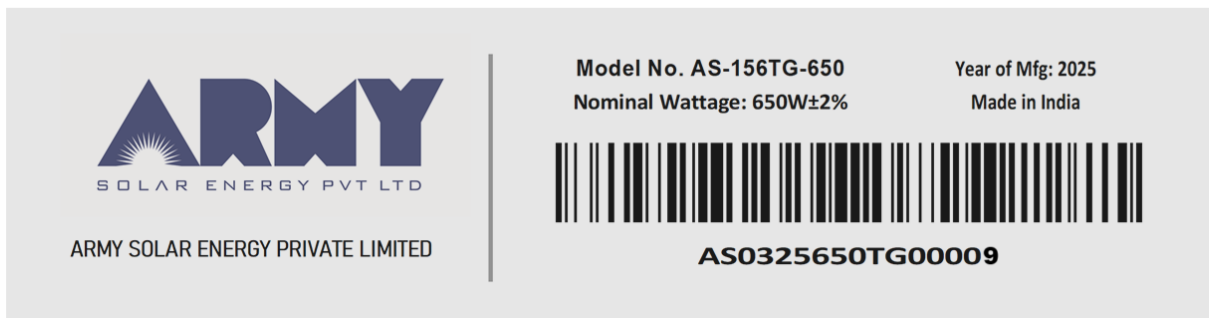
All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

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.



Serial number coding rules for date of manufacturing: AS0325650TG00009

Nomenclature:

- **AS:** AS defines Company/Brand Name(Army Solar)
- **0325:** These Four digit define Mfg. Month and year in MMY format (03= March, 25= 2025 year of mfg.)
- **650TG:** This define glass Type e.g. 650TG means 650W Topcon GLASS PV Module
- **00009:** Last Five digit is Unique serial no Serial Nos. of Manufacturing Module

Polarity marking on Connectors(BOM 1)



Polarity marking on Connectors(BOM 1)





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Polarity marking on Junction Box(BOM 1)



Polarity marking on Junction Box(BOM 1)



(Retested Model: AS-156TG-650)(BOM 2)

MODULE TYPE: AS-156TG-650

MADE IN INDIA

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



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.

 ARMY SOLAR ENERGY PRIVATE LIMITED	Model No. AS-156TG-650	Year of Mfg: 2025
	Nominal Wattage: 650W±2%	Made in India
	 AS0325650TG00021	

Polarity marking on Connectors(BOM 2)



Polarity marking on Connectors(BOM 2)





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Polarity marking on Junction Box(BOM 2)

Polarity marking on Junction Box(BOM 2)



(Series Model: AS-156TG-645)

MODULE TYPE: AS-156TG-645

MADE IN INDIA

<p>Rated Power (Pmax) : 645W Rated Voltage (Vmp) : 45.99V Rated Current (Imp) : 14.03A Open Circuit Voltage (Voc) : 56.85V Short Circuit Current (Isc) : 14.76A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 23.05% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 <p>ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT-394110</p>	<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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-645

Year of Mfg: 2025

Nominal Wattage: 645W±2%

Made in India



AS0325645TG00001





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Dated : 11/06/2025

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(Series Model: AS-156TG-640)

MODULE TYPE: AS-156TG-640

MADE IN INDIA

<p>Rated Power (Pmax) : 640W Rated Voltage (Vmp) : 45.89V Rated Current (Imp) : 13.95A Open Circuit Voltage (Voc) : 56.70V Short Circuit Current (Isc) : 14.69A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.88% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 <p>ARMY SOLAR ENERGY PVT LTD</p> <p>ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT- 394110</p>	<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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-640

Nominal Wattage: 640W±2%

Year of Mfg: 2025

Made in India



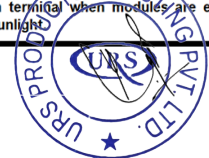
AS0325640TG00001

(Series Model: AS-156TG-635)

MODULE TYPE: AS-156TG-635

MADE IN INDIA

<p>Rated Power (Pmax) : 635W Rated Voltage (Vmp) : 45.79V Rated Current (Imp) : 13.87A Open Circuit Voltage (Voc) : 56.55V Short Circuit Current (Isc) : 14.62A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.69% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 <p>ARMY SOLAR ENERGY PVT LTD</p> <p>ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT- 394110</p>	<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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-635

Year of Mfg: 2025

Nominal Wattage: 635W±2%

Made in India



AS0325635TG00001

(Series Model: AS-156TG-630)

MODULE TYPE: AS-156TG-630

MADE IN INDIA

Rated Power (Pmax)	: 630W
Rated Voltage (Vmp)	: 45.96V
Rated Current (Imp)	: 13.71A
Open Circuit Voltage (Voc)	: 55.71V
Short Circuit Current (Isc)	: 14.37A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.54%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

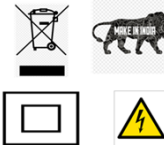


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NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-630

Year of Mfg: 2025

Nominal Wattage: 630W±2%

Made in India



AS0325630TG00001





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(Series Model: AS-156TG-625)

MODULE TYPE: AS-156TG-625

MADE IN INDIA

<p>Rated Power (Pmax) : 625W Rated Voltage (Vmp) : 45.86V Rated Current (Imp) : 13.63A Open Circuit Voltage (Voc) : 55.56V Short Circuit Current (Isc) : 14.30A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.36% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-625
Nominal Wattage: 625W±2%

Year of Mfg: 2025
Made in India



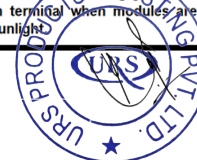
AS0325625TG00001

(Series Model: AS-156TG-620)

MODULE TYPE: AS-156TG-620

MADE IN INDIA

<p>Rated Power (Pmax) : 620W Rated Voltage (Vmp) : 45.76V Rated Current (Imp) : 13.55A Open Circuit Voltage (Voc) : 55.41V Short Circuit Current (Isc) : 14.23A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.18% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-620

Year of Mfg: 2025

Nominal Wattage: 620W±2%

Made in India



AS0325620TG00001

(Series Model: AS-156TG-615)

MODULE TYPE: AS-156TG-615

MADE IN INDIA

Rated Power (Pmax)	: 615W
Rated Voltage (Vmp)	: 45.66V
Rated Current (Imp)	: 13.47A
Open Circuit Voltage (Voc)	: 55.26V
Short Circuit Current (Isc)	: 14.16A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.01%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

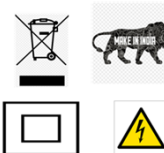


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-615

Year of Mfg: 2025

Nominal Wattage: 615W±2%

Made in India



AS0325615TG00001





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(Series Model: AS-156TG-610)

MODULE TYPE: AS-156TG-610

MADE IN INDIA

<p>Rated Power (Pmax) : 610W Rated Voltage (Vmp) : 45.56V Rated Current (Imp) : 13.39A Open Circuit Voltage (Voc) : 55.11V Short Circuit Current (Isc) : 14.09A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.83% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-610

Nominal Wattage: 610W±2%

Year of Mfg: 2025

Made in India



AS0325610TG00001

(Series Model: AS-156TG-605)

MODULE TYPE: AS-156TG-605

MADE IN INDIA

<p>Rated Power (Pmax) : 605W Rated Voltage (Vmp) : 45.46V Rated Current (Imp) : 13.31A Open Circuit Voltage (Voc) : 54.96V Short Circuit Current (Isc) : 14.02A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.65% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-156TG-605
Nominal Wattage: 605W±2%

Year of Mfg: 2025
Made in India



AS0325605TG00001

(Series Model: AS-144TG-600)

MODULE TYPE: AS-144TG-600

MADE IN INDIA

Rated Power (Pmax)	: 600W
Rated Voltage (Vmp)	: 45.36V
Rated Current (Imp)	: 13.23A
Open Circuit Voltage (Voc)	: 54.81V
Short Circuit Current (Isc)	: 13.95A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 21.47%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

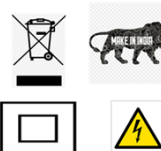


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



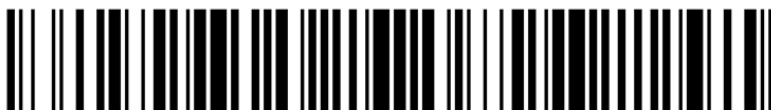
WARNING-ELECTRICAL HAZARD: This module produce electricity when exposed to the sunlight,cover the glass side with an opeque material,before opening junction box, do not touch terminal when modules are exposed to the sunlight.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-144TG-600
Nominal Wattage: 600W±2%

Year of Mfg: 2025
Made in India



AS0325600TG00001





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(Series Model: AS-144TG-595)

MODULE TYPE: AS-144TG-595

MADE IN INDIA

Rated Power (Pmax)	: 595W
Rated Voltage (Vmp)	: 45.26V
Rated Current (Imp)	: 13.15A
Open Circuit Voltage (Voc)	: 54.66V
Short Circuit Current (Isc)	: 13.88A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 21.29%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

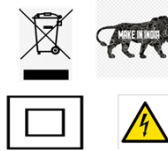


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-144TG-595

Nominal Wattage: 595W±2%

Year of Mfg: 2025

Made in India



AS0325595TG00001

(Series Model: AS-144TG-590)

MODULE TYPE: AS-144TG-590

MADE IN INDIA

Rated Power (Pmax)	: 590W
Rated Voltage (Vmp)	: 45.16V
Rated Current (Imp)	: 13.07A
Open Circuit Voltage (Voc)	: 54.51V
Short Circuit Current (Isc)	: 13.81A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 21.12%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

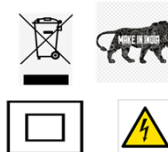


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



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.





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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No. AS-144TG-590

Nominal Wattage: 590W±2%

Year of Mfg: 2025

Made in India



AS0325590TG00001

(Series Model: AS-144TG-585)

MODULE TYPE: AS-144TG-585

MADE IN INDIA

Rated Power (Pmax)	: 585W
Rated Voltage (Vmp)	: 45.06V
Rated Current (Imp)	: 12.99A
Open Circuit Voltage (Voc)	: 54.36V
Short Circuit Current (Isc)	: 13.74A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 20.94%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

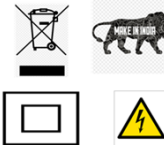


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-585

Nominal Wattage: 585W±2%

Year of Mfg: 2025

Made in India



AS0325585TG00001





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(Series Model: AS-144TG-580)

MODULE TYPE: AS-144TG-580

MADE IN INDIA

<p>Rated Power (Pmax) : 580W Rated Voltage (Vmp) : 42.84V Rated Current (Imp) : 13.55A Open Circuit Voltage (Voc) : 51.48V Short Circuit Current (Isc) : 14.25A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.43% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-580
Nominal Wattage: 580W±2%

Year of Mfg: 2025
Made in India



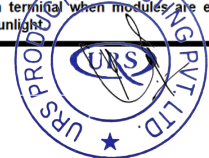
AS0325580TG00001

(Series Model: AS-144TG-575)

MODULE TYPE: AS-144TG-575

MADE IN INDIA

<p>Rated Power (Pmax) : 575W Rated Voltage (Vmp) : 42.72V Rated Current (Imp) : 13.47A Open Circuit Voltage (Voc) : 51.31V Short Circuit Current (Isc) : 14.17A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.25% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-575

Year of Mfg: 2025

Nominal Wattage: 575W±2%

Made in India



AS0325575TG00001

(Series Model: AS-144TG-570)

MODULE TYPE: AS-144TG-570

MADE IN INDIA

Rated Power (Pmax)	: 570W
Rated Voltage (Vmp)	: 42.60V
Rated Current (Imp)	: 13.39A
Open Circuit Voltage (Voc)	: 51.14V
Short Circuit Current (Isc)	: 14.09A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.07%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

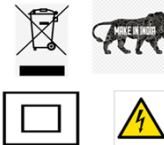


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-570

Year of Mfg: 2025

Nominal Wattage: 570W±2%

Made in India



AS0325570TG00001





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(Series Model: AS-144TG-565)

MODULE TYPE: AS-144TG-565

MADE IN INDIA

<p>Rated Power (Pmax) : 565W Rated Voltage (Vmp) : 42.48V Rated Current (Imp) : 13.31A Open Circuit Voltage (Voc) : 50.97V Short Circuit Current (Isc) : 14.01A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.88% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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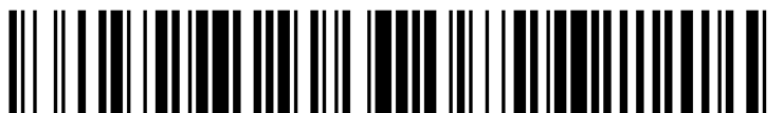
ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-565

Year of Mfg: 2025

Nominal Wattage: 565W±2%

Made in India



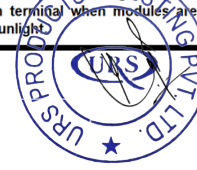
AS0325565TG00001

(Series Model: AS-144TG-560)

MODULE TYPE: AS-144TG-560

MADE IN INDIA

<p>Rated Power (Pmax) : 560W Rated Voltage (Vmp) : 42.36V Rated Current (Imp) : 13.23A Open Circuit Voltage (Voc) : 50.80V Short Circuit Current (Isc) : 13.93A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.70% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-560
Nominal Wattage: 560W±2%

Year of Mfg: 2025
Made in India



AS0325560TG00001

(Series Model: AS-144TG-555)

MODULE TYPE: AS-144TG-555

MADE IN INDIA

Rated Power (Pmax)	: 555W
Rated Voltage (Vmp)	: 42.24V
Rated Current (Imp)	: 13.15A
Open Circuit Voltage (Voc)	: 50.63V
Short Circuit Current (Isc)	: 13.85A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 21.49%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

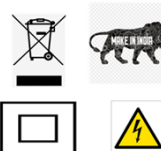


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(2278 X 1134 X 30 in mm)

Module Weight: 32.0Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-555
Nominal Wattage: 555W±2%

Year of Mfg: 2025
Made in India



AS0325555TG00001





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(Series Model: AS-144TG-550)

MODULE TYPE: AS-144TG-550

MADE IN INDIA

<p>Rated Power (Pmax) : 550W Rated Voltage (Vmp) : 42.12V Rated Current (Imp) : 13.07A Open Circuit Voltage (Voc) : 50.46V Short Circuit Current (Isc) : 13.77A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.31% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-550

Year of Mfg: 2025

Nominal Wattage: 550W±2%

Made in India



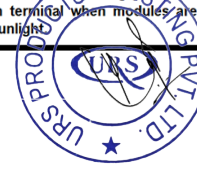
AS0325550TG00001

(Series Model: AS-144TG-545)

MODULE TYPE: AS-144TG-545

MADE IN INDIA

<p>Rated Power (Pmax) : 545W Rated Voltage (Vmp) : 42.00V Rated Current (Imp) : 12.99A Open Circuit Voltage (Voc) : 50.29V Short Circuit Current (Isc) : 13.69A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.11% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>
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TC-6468

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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-545
Nominal Wattage: 545W±2%

Year of Mfg: 2025
Made in India








AS0325545TG00001

(Series Model: AS-144TG-540)

MODULE TYPE: AS-144TG-540

MADE IN INDIA

<p>Rated Power (Pmax) : 540W Rated Voltage (Vmp) : 41.88V Rated Current (Imp) : 12.91A Open Circuit Voltage (Voc) : 50.12V Short Circuit Current (Isc) : 13.61A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 20.92% 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: (2278 X 1134 X 30 in mm)</p> <p>Module Weight: 32.0Kgs</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>    
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-144TG-540
Nominal Wattage: 540W±2%

Year of Mfg: 2025
Made in India



AS0325540TG00001





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(Series Model: AS-132TG-535)

MODULE TYPE: AS-132TG-535

MADE IN INDIA

<p>Rated Power (Pmax) : 535W Rated Voltage (Vmp) : 41.76V Rated Current (Imp) : 12.83A Open Circuit Voltage (Voc) : 49.95V Short Circuit Current (Isc) : 13.53A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 20.73% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-535

Year of Mfg: 2025

Nominal Wattage: 535W±2%

Made in India



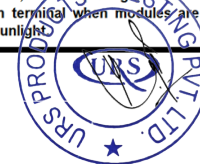
AS0325535TG00001

(Series Model: AS-132TG-530)

MODULE TYPE: AS-132TG-530

MADE IN INDIA

<p>Rated Power (Pmax) : 530W Rated Voltage (Vmp) : 39.95V Rated Current (Imp) : 13.27A Open Circuit Voltage (Voc) : 47.07V Short Circuit Current (Isc) : 13.94A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.35% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>
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IS/IEC 61730-1 : 2004 /
A1:2017+A2:2017

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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-530
Nominal Wattage: 530W±2%

Year of Mfg: 2025
Made in India








AS0325530TG00001

(Series Model: AS-132TG-525)

MODULE TYPE: AS-132TG-525

MADE IN INDIA

<p>Rated Power (Pmax) : 525W Rated Voltage (Vmp) : 39.83V Rated Current (Imp) : 13.19A Open Circuit Voltage (Voc) : 46.90V Short Circuit Current (Isc) : 13.86A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.12% 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>    
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-525
Nominal Wattage: 525W±2%

Year of Mfg: 2025
Made in India



AS0325525TG00001





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(Series Model: AS-132TG-520)

MODULE TYPE: AS-132TG-520

MADE IN INDIA

<p>Rated Power (Pmax) : 520W Rated Voltage (Vmp) : 39.71V Rated Current (Imp) : 13.11A Open Circuit Voltage (Voc) : 46.73V Short Circuit Current (Isc) : 13.78A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.93% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-520
Nominal Wattage: 520W±2%

Year of Mfg: 2025
Made in India



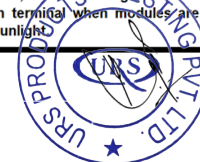
AS0325520TG00001

(Series Model: AS-132TG-515)

MODULE TYPE: AS-132TG-515

MADE IN INDIA

<p>Rated Power (Pmax) : 515W Rated Voltage (Vmp) : 39.59V Rated Current (Imp) : 13.03A Open Circuit Voltage (Voc) : 46.56V Short Circuit Current (Isc) : 13.70A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.70% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-515
Nominal Wattage: 515W±2%

Year of Mfg: 2025
Made in India


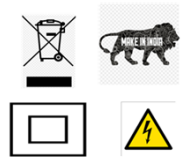


AS0325515TG00001

(Series Model: AS-132TG-510)

MODULE TYPE: AS-132TG-510

MADE IN INDIA

<p>Rated Power (Pmax) : 510W Rated Voltage (Vmp) : 39.46V Rated Current (Imp) : 12.95A Open Circuit Voltage (Voc) : 46.39V Short Circuit Current (Isc) : 13.62A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.52% 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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> 
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-510
Nominal Wattage: 510W±2%

Year of Mfg: 2025
Made in India



AS0325510TG00001





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Dated : 11/06/2025


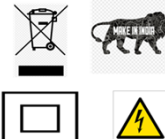
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(Series Model: AS-132TG-505)

MODULE TYPE: AS-132TG-505

MADE IN INDIA

<p>Rated Power (Pmax) : 505W Rated Voltage (Vmp) : 39.31V Rated Current (Imp) : 12.87A Open Circuit Voltage (Voc) : 46.22V Short Circuit Current (Isc) : 13.54A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.31% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 <p>ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT-394110</p>	<p>All Values are measured at STC : 25°C Temp Cell, 1000W/MSQ, AM 1.5</p> <p>Module Dimensions: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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> 
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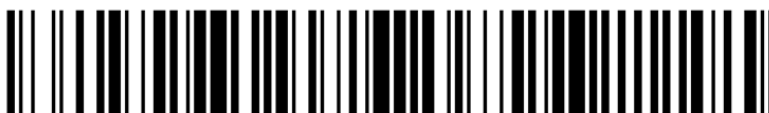
ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-505

Year of Mfg: 2025

Nominal Wattage: 505W±2%

Made in India


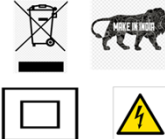


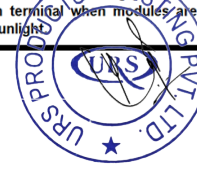
AS0325505TG00001

(Series Model: AS-132TG-500)

MODULE TYPE: AS-132TG-500

MADE IN INDIA

<p>Rated Power (Pmax) : 500W Rated Voltage (Vmp) : 39.16V Rated Current (Imp) : 12.79A Open Circuit Voltage (Voc) : 46.05V Short Circuit Current (Isc) : 13.46A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.08% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 <p>ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO.119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT-394110</p>	<p>All Values are measured at STC : 25°C Temp Cell, 1000W/MSQ, AM 1.5</p> <p>Module Dimensions: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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> 
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-500

Year of Mfg: 2025

Nominal Wattage: 500W±2%

Made in India



AS0325500TG00001

(Series Model: AS-132TG-495)

MODULE TYPE: AS-132TG-495

MADE IN INDIA

Rated Power (Pmax)	: 495W
Rated Voltage (Vmp)	: 36.77V
Rated Current (Imp)	: 13.47A
Open Circuit Voltage (Voc)	: 42.77V
Short Circuit Current (Isc)	: 14.16A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.89%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V



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:
(2092 X 1134 X 30 in mm)

Module Weight: 30.3Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-495

Year of Mfg: 2025

Nominal Wattage: 495W±2%

Made in India



AS0325495TG00001





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(Series Model: AS-132TG-490)

MODULE TYPE: AS-132TG-490

MADE IN INDIA

<p>Rated Power (Pmax) : 490W Rated Voltage (Vmp) : 36.62V Rated Current (Imp) : 13.39A Open Circuit Voltage (Voc) : 42.59V Short Circuit Current (Isc) : 14.08A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.65% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (2092 X 1134 X 30 in mm)</p> <p>Module Weight: 30.3Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-132TG-490
Nominal Wattage: 490W±2%

Year of Mfg: 2025
Made in India



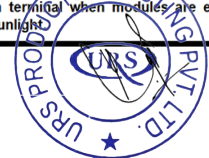
AS0325490TG00001

(Series Model: AS-120TG-485)

MODULE TYPE: AS-120TG-485

MADE IN INDIA

<p>Rated Power (Pmax) : 485W Rated Voltage (Vmp) : 36.47V Rated Current (Imp) : 13.31A Open Circuit Voltage (Voc) : 42.41V Short Circuit Current (Isc) : 13.99A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 22.43% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (1908 X 1134 X 30 in mm)</p> <p>Module Weight: 27.7Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-485

Year of Mfg: 2025

Nominal Wattage: 485W±2%

Made in India



AS0325485TG00001

(Series Model: AS-120TG-480)

MODULE TYPE: AS-120TG-480

MADE IN INDIA

Rated Power (Pmax)	: 480W
Rated Voltage (Vmp)	: 36.32V
Rated Current (Imp)	: 13.23A
Open Circuit Voltage (Voc)	: 42.23V
Short Circuit Current (Isc)	: 13.91A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.18%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

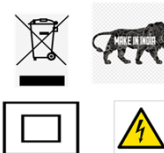


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(1908 X 1134 X 30 in mm)

Module Weight: 27.7Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-480

Year of Mfg: 2025

Nominal Wattage: 480W±2%

Made in India



AS0325480TG00001





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(Series Model: AS-120TG-475)

MODULE TYPE: AS-120TG-475

MADE IN INDIA

<p>Rated Power (Pmax) : 475W Rated Voltage (Vmp) : 36.17V Rated Current (Imp) : 13.15A Open Circuit Voltage (Voc) : 42.05V Short Circuit Current (Isc) : 13.82A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.98% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (1908 X 1134 X 30 in mm)</p> <p>Module Weight: 27.7Kgs</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>
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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-475
Nominal Wattage: 475W±2%

Year of Mfg: 2025
Made in India



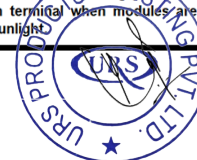
AS0325475TG00001

(Series Model: AS-120TG-470)

MODULE TYPE: AS-120TG-470

MADE IN INDIA

<p>Rated Power (Pmax) : 470W Rated Voltage (Vmp) : 36.02V Rated Current (Imp) : 13.07A Open Circuit Voltage (Voc) : 41.87V Short Circuit Current (Isc) : 13.74A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.72% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (1908 X 1134 X 30 in mm)</p> <p>Module Weight: 27.7Kgs</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>
--	---	---





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TC-6468

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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-470
Nominal Wattage: 470W±2%

Year of Mfg: 2025
Made in India



AS0325470TG00001

(Series Model: AS-120TG-465)

MODULE TYPE: AS-120TG-465

MADE IN INDIA

Rated Power (Pmax)	: 465W
Rated Voltage (Vmp)	: 35.87V
Rated Current (Imp)	: 12.99A
Open Circuit Voltage (Voc)	: 41.69V
Short Circuit Current (Isc)	: 13.65A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 21.50%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

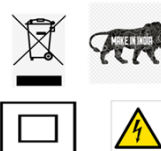


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(1908 X 1134 X 30 in mm)

Module Weight: 27.7Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-465
Nominal Wattage: 465W±2%

Year of Mfg: 2025
Made in India



AS0325465TG00001





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(Series Model: AS-120TG-460)

MODULE TYPE: AS-120TG-460

MADE IN INDIA

<p>Rated Power (Pmax) : 460W Rated Voltage (Vmp) : 35.70V Rated Current (Imp) : 12.91A Open Circuit Voltage (Voc) : 41.51V Short Circuit Current (Isc) : 13.57A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 21.27% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (1908 X 1134 X 30 in mm)</p> <p>Module Weight: 27.7Kgs</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

Model No.AS-120TG-460

Year of Mfg: 2025

Nominal Wattage: 460W±2%

Made in India



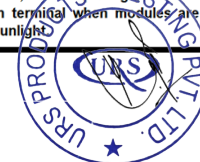
AS0325460TG00001

(Series Model: AS-120TG-450)

MODULE TYPE: AS-120TG-450

MADE IN INDIA

<p>Rated Power (Pmax) : 450W Rated Voltage (Vmp) : 33.17V Rated Current (Imp) : 13.57A Open Circuit Voltage (Voc) : 38.51V Short Circuit Current (Isc) : 13.57A Output Tolerance : 0 to 2% Series Fuse Rating : 30A Module Efficiency : 23.06% Application Class Rating : Class A Safety Class Rating : Class II Maximum System Voltage : 1500 V</p>	 ARMY SOLAR ENERGY PVT LTD 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: (1908 X 1134 X 30 in mm)</p> <p>Module Weight: 27.7Kgs</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>
--	--	---





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ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-450
Nominal Wattage: 450W±2%

Year of Mfg: 2025
Made in India



AS0325450TG00001

(Series Model: AS-120TG-445)

MODULE TYPE: AS-120TG-445

MADE IN INDIA

Rated Power (Pmax)	: 445W
Rated Voltage (Vmp)	: 33.01V
Rated Current (Imp)	: 13.49A
Open Circuit Voltage (Voc)	: 38.33V
Short Circuit Current (Isc)	: 13.49A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.78%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

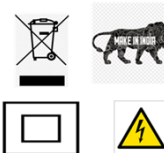


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(1908 X 1134 X 30 in mm)

Module Weight: 27.7Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-445
Nominal Wattage: 445W±2%

Year of Mfg: 2025
Made in India



AS0325445TG00001





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(Series Model: AS-120TG-440)

MODULE TYPE: AS-120TG-440

MADE IN INDIA

Rated Power (Pmax)	: 440W
Rated Voltage (Vmp)	: 32.85V
Rated Current (Imp)	: 13.41A
Open Circuit Voltage (Voc)	: 38.15V
Short Circuit Current (Isc)	: 13.41A
Output Tolerance	: 0 to 2%
Series Fuse Rating	: 30A
Module Efficiency	: 22.51%
Application Class Rating	: Class A
Safety Class Rating	: Class II
Maximum System Voltage	: 1500 V

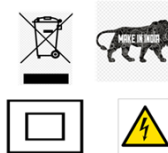


ARMY SOLAR ENERGY PRIVATE LIMITED
NEW BLOCK NO.119, MOLVAN KARANJ,
MOLVAN PANETHA ROAD, SURAT, GUJARAT-
394110

All Values are measured at STC :
25°C Temp Cell, 1000W/MSQ, AM 1.5

Module Dimensions:
(1908 X 1134 X 30 in mm)

Module Weight: 27.7Kgs



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.



ARMY SOLAR ENERGY PRIVATE LIMITED

Model No.AS-120TG-440
Nominal Wattage: 440W±2%

Year of Mfg: 2025
Made in India



AS0325440TG00001





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GENERAL INFORMATION

Test item particulars:	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules (Si Wafer Based)
Accessories and detachable parts included in the evaluation	N/A
Mounting system used	As per Installation Manual
Other Options included	N/A
Possible test case verdicts:	
- 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)
Abbreviations used in the report:	
Pmax – Maximum power	PD – Partial Discharge
Vpm – Maximum power voltage	RTI/RTE – Relative Thermal Endurance Index
Ipm – Maximum power current	STC – Standard Test Conditions
Isc – Short circuit current	TC – Thermal Cycling
Voc – Open circuit voltage	CTI – Comparative Tracking Index
FF –Fill factor	MST – Module Safety Test
Testing	
Date of receipt of test item	05/04/2025
Date (s) of performance of tests	09/04/2025 to 11/06/2025

General remarks:

"(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/ [X] point is used as the decimal separator.

This Test Report Form is intended for the investigation of PV modules in accordance with IS/IEC 61730-1:2004 +A1:2017+A2:2017. It can only be used together with IS/IEC 61730-2:2004 +A1:2017 Test Report.

Name and Address of Factory	ARMY SOLAR ENERGY PRIVATE LIMITED NEW BLOCK NO. 119, MOLVAN KARANJ, MOLVAN PANETHA ROAD, SURAT, GUJARAT, 394110
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General Product Information

General product information:

PV module type reference.....: **AS-156TG-650(Representative & retested Model)**

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 systems operating voltage.....:	1500V
Maximum over-current protection rating.....:	30A
Safety Application	Class A
c l a s s	Class II
Safety class in accordance with IEC 61140.....:	Class C
Fire safety class.....:	Class C
Recommended maximum series/parallel module configurations.....:	24 Pcs each series

Scope of Module Safety Qualification Testing:

Sample.....:	<input checked="" type="checkbox"/> Initial module safety qualification
	<input checked="" type="checkbox"/> Extension of module safety qualification
Original test report ref. no	N/A
<input checked="" type="checkbox"/> Change in cell technology	
<input type="checkbox"/> Change in cell interconnect materials/technique	
<input checked="" type="checkbox"/> Modification to encapsulation system	
<input checked="" type="checkbox"/> Modification to junction box/el. Termination	
<input type="checkbox"/> Modification to superstrate	
<input type="checkbox"/> Change in el. circuit of an identical package	
<input type="checkbox"/> Modification to backsheet/substrate	
<input type="checkbox"/> Higher or lower output by 10 %	
<input type="checkbox"/> Modification to frame/mounting structure	
<input type="checkbox"/> Increase in module size	
<input type="checkbox"/> Removal of frame	
<input type="checkbox"/> Modification to cut cell retest (Limited testing)	

Note (1) Use the "General product information" field to give any information on model differences within a product type family covered by the test report. Note (2) Use the "General product information" field to describe the range of electrical and safety ratings, if the TRF covers a type family of modules. Note (3) Use Annex 1 to list the used materials and components of the module (manufacturer/supplier and type reference)





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Similarities & difference between representative model and series/family models:

Sr. No	Series/Family Models	Electrical Specifications						Model difference	Model similarities	
		Maximum System Voltage, (Vdc)	Open Circuit Voltage @STC/Voc (Vdc)	Rated Voltage @ STC/ Vmp (V dc)	Short Circuit Current @ STC/Isc (A)	Rated Current @ STC/Imp (A)	Rated Maximum Power at STC, (Watts)			
1	AS-156TG-650 (Representative & retested Model)	1500	57.00	46.09	14.83	14.11	650	<ul style="list-style-type: none"> ● Pmp ● Voc ● Isc ● Vmp ● Imp ● Module size ● Cell technology ● Encapsulation ● Junction box/electrical termination 	<ul style="list-style-type: none"> ● Maximum System Voltage ● Superstrate ● Backsheet/ substrate ● Frame and/or mounting structure ● Cell interconnect materials or technique ● Electrical circuit of an identical package ● Power output (by 10%) in the identical package including size and using the identical cell process. ● Bypass diode 	
Series Models:										
2	AS-156TG-645	1500	56.85	45.99	14.76	14.03	645			
3	AS-156TG-640	1500	56.70	45.89	14.69	13.95	640			
4	AS-156TG-635	1500	56.55	45.79	14.62	13.87	635			
5	AS-156TG-630	1500	55.71	45.96	14.37	13.71	630			
6	AS-156TG-625	1500	55.56	45.86	14.30	13.63	625			
7	AS-156TG-620	1500	55.41	45.76	14.23	13.55	620			
8	AS-156TG-615	1500	55.26	45.66	14.16	13.47	615			
9	AS-156TG-610	1500	55.11	45.56	14.09	13.39	610			
10	AS-156TG-605	1500	54.96	45.46	14.02	13.31	605			
11	AS-144TG-600	1500	54.81	45.36	13.95	13.23	600			
12	AS-144TG-595	1500	54.66	45.26	13.88	13.15	595			
13	AS-144TG-590	1500	54.51	45.16	13.81	13.07	590			
14	AS-144TG-585	1500	54.36	45.06	13.74	12.99	585			
15	AS-144TG-580	1500	51.48	42.84	14.25	13.55	580			
16	AS-144TG-575	1500	51.31	42.72	14.17	13.47	575			
17	AS-144TG-570	1500	51.14	42.60	14.09	13.39	570			
18	AS-144TG-565	1500	50.97	42.48	14.01	13.31	565			
19	AS-144TG-560	1500	50.80	42.36	13.93	13.23	560			
20	AS-144TG-555	1500	50.63	42.24	13.85	13.15	555			
21	AS-144TG-550	1500	50.46	42.12	13.77	13.07	550			
22	AS-144TG-545	1500	50.29	42.00	13.69	12.99	545			
23	AS-144TG-540	1500	50.12	41.88	13.61	12.91	540			
24	AS-132TG-535	1500	49.95	41.76	13.53	12.83	535			
25	AS-132TG-530	1500	47.07	39.95	13.94	13.27	530			
26	AS-132TG-525	1500	46.90	39.83	13.86	13.19	525			
27	AS-132TG-520	1500	46.73	39.71	13.78	13.11	520			





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28	AS-132TG-515	1500	46.56	39.59	13.70	13.03	515
29	AS-132TG-510	1500	46.39	39.46	13.62	12.95	510
30	AS-132TG-505	1500	46.22	39.31	13.54	12.87	505
31	AS-132TG-500	1500	46.05	39.16	13.46	12.79	500
32	AS-132TG-495	1500	42.77	36.77	14.16	13.47	495
33	AS-132TG-490	1500	42.59	36.62	14.08	13.39	490
34	AS-120TG-485	1500	42.41	36.47	13.99	13.31	485
35	AS-120TG-480	1500	42.23	36.32	13.91	13.23	480
36	AS-120TG-475	1500	42.05	36.17	13.82	13.15	475
37	AS-120TG-470	1500	41.87	36.02	13.74	13.07	470
38	AS-120TG-465	1500	41.69	35.87	13.65	12.99	465
39	AS-120TG-460	1500	41.51	35.70	13.57	12.91	460
40	AS-120TG-450	1500	38.51	33.17	13.57	13.57	450
41	AS-120TG-445	1500	38.33	33.01	13.49	13.49	445
42	AS-120TG-440	1500	38.15	32.85	13.41	13.41	440





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Clause	Requiremet+Test	Result-Remark	Verdict
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3	Application Classes	--	P
	The module has been evaluated for the following Application Class (Class A, B, C)	Class A	P
4	Construction Requirements	--	P
4.1.1	It is stated that the module is able to operate under environmental condition type AB8 according to IEC 60364-5-51	Satisfactory	P
4.1.2	The module/s is/are completely assembled when shipped from the factory.	--	P
	The module is provided in subassemblies.	No subassemblies	N/A
4.1.3	Incorporation of a module into the final assembly does not require any alteration of the module from its originally evaluated form. If YES, specific details describing necessary modification(s) are provided in the installation instructions	No such alteration required	P
4.1.4	If the module must bear a definite relationship to another module, it is constructed to permit incorporation into the final assembly without the need for alteration.	Satisfactory	P
4.1.5	The construction of the module is such that ground continuity is not interrupted by installation.	The grounding connection is a separate connection on the frame and is not interrupted by installation.	P
4.1.6	Parts of the module are prevented from loosening or turning, if such loosening or turning may result in a risk of fire, electric shock, or injury to persons.	Satisfactory	P
4.1.7	Friction between surfaces is not used as the sole means to inhibit the turning or loosening of a part	No such part	P
4.1.8	Any adjustable or movable structural part is provided with a locking device to reduce the likelihood of unintentional movement.	No adjustable or movable parts used	P
4.2	Metal parts	--	P
4.2.1	Metals used in locations that are exposed to moisture shall not be employed alone or in combinations that could result in deterioration, such that the product would not comply with the requirements in this standard.	Only aluminum is used for frame	P
4.2.2	Iron or mild steel serving as a necessary part of the module but not exposed to the weather are plated, painted, or enamelled for protection against corrosion.	--	N/A
4.2.3	Simple sheared or cut edges and punched holes are not required to be additionally protected.	Punched holes on Aluminum frame	P
5	Polymeric Materials	--	P
5.1	General	--	P
	Polymeric materials serving as an enclosure for live metal parts	See Sub clause 5.2	--
	Polymeric materials serving as support for live metal parts	See Sub clause 5.3	--
	Polymeric materials serving as the outer surface for the module	See Sub clause 5.4	--
	the module See Subclause 5.4 — Polymeric materials serving as superstrate or a substrate which provide rigid reinforcement or serve as the carrier for the active cells	--	--
	a) If the superstrate or substrate polymers are intended for contact with active cells	See Sub clause 5.3	--





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Clause	Requirement+Test	Result-Remark	Verdict
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	b) If the superstrate or substrate polymers are intended for use as an outer surface	See Sub clause 5.4	--
	c) If superstrate or substrate polymers are intended for both contact with active cells or other circuit elements and for use as the outer surface	See Sub clause 5.3 and 5.4	--
	Polymeric materials serving as barriers	See Sub clause 5.5	--
	All polymeric materials have a minimum relative thermal endurance index (electrical and mechanical, as defined by IEC 60216-5) of 20 °C above the maximum measured operating temperature of said material in application, as measured during the Temperature Test MST 21 given in IS/IEC 61730-2.	Satisfactory	P

5.2	Polymers serving as an enclosure for live parts	--	P
	Information is provided that polymers serving as an enclosure for live parts comply with:	--	--
	a) 5-V flammability rating (IEC 60695-11-20)	Satisfactory. Certified component used, see Annex 1.	P
	b) 5-V flammability rating, after water immersion and exposure of the end-product (IEC 60695-11-20)	Satisfactory. Certified component used, see Annex 1.	P
	c) Ultraviolet radiation resistance (ANSI/UL 746C or ISO 4892-2)	Satisfactory. Certified component used, see Annex 1.	P
	d) Minimum hot wire ignition rating of 30 (IEC 60695-2-20)	Satisfactory. Certified component used, see Annex 1.	P

5.3	Polymers serving to support live parts	--	P
	Information is provided that polymers serving to support live parts comply with:	--	--
	a) Flammability classification and high-current arc ignition rating (IEC 60695-11-10) as given in Table 1 of IS/IEC 61730-1	Satisfactory. Certified component used, See Annex 1.	P
	b) Comparative Tracking Index (CTI) ≥ 250	--	N/A
	Comparative Tracking Index (IEC 60112)	--	--
	Comparative Tracking Index (IEC 60112)	--	--
	c) Inclined plane tracking rating of 1 h, using the time to track method at 2.5 kV (IEC 60587), if the maximum system operating voltage rating is in the range 600 V – 1500 V.	--	N/A
	Maximum system operating voltage rating (V):	--	--
	d) Ultraviolet radiation resistance (ANSI/UL 746C or ISO 4892-2)	Satisfactory. Certified component used, See Annex 1.	P

5.4	Polymers serving as an outer surface	--	N/A
	Information is provided that polymeric substrates or superstrates used in the module have:	--	--

5.4.1.	A relative thermal endurance index, both electrical and mechanical, as determined in accordance with IEC 60216 of at least 90 °C.	--	N/A
	A relative thermal endurance index of at least 20 °C above the maximum measured operating temperature of the material as measured during the Temperature Test MST21	--	N/A





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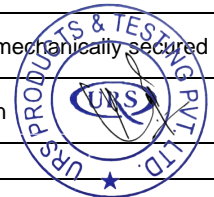


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	of IS/IEC 61730-2.		
5.4.2	Polymeric materials that serve as the outer enclosure for a module that (1) is intended to be installed in a multi-module or -panel system or (2) have an exposed surface area greater than 1 m ² or a single dimension larger than 2 m, has a maximum flame spread index of 100 as determined under ASTM E162-1990	--	N/A
5.4.3	If exposed to direct sunlight in the application, the polymeric material has been evaluated for ultraviolet (UV) radiation resistance as determined in accordance with ANSI/UL 746C or ISO 4892-2	--	N/A
5.4.4	Polymeric materials intended for use as a superstrate or substrate, without appropriate IEC insulation pre-qualification, comply with the requirements of the Partial Discharge Test MST 15 of IS/IEC 61730-2.	--	N/A
5.5	Polymers serving as barriers	--	P
	Insulation barriers are of adequate thickness and of a material appropriate for the application, as defined by IEC 61140	Satisfactory, See Annex 1	P
	Barriers or liners are held in place and are not adversely affected	Satisfactory	P
5.6	Polymers serving as structural glazing materials	--	P
	Polymers serving as structural glazing materials comply with the requirements for safety glazing by material certification (ANSI Z97.1-93) or by testing in accordance with Module Breakage Test MST 32 of IS/IEC 61730-2.	See test result of MST 32 of IS/IEC 61730-2	P
Supplementary information: NIL			
6	Internal Wiring And Current-Carrying Parts	--	P
	Any current-carrying part and wiring has the mechanical strength and current-carrying capacity necessary for its application	Certified component used	P
6.1	Internal wiring	--	P
6.1.1	Wiring used within a module has an insulation rating for a minimum of 90 °C, with a gauge and voltage rating acceptable for the application as defined by the requirements of IEC 60189-2	90°C, See Annex 1	P
6.1.2	The wiring of a module is located so that after installation of the module in the intended manner the insulation is not exposed to degrading effects of direct sunlight.	Satisfactory	P
6.2	Splices	--	N/A
	Splices are insulated equivalent to that required for the wiring involved.	No such construction	N/A
6.3	Mechanical securement	--	P
6.3.1	Joints or connections are mechanically secure and provide electrical contact without strain on connections and terminals.	All connections are mechanically secured	P
6.3.2	Uninsulated live parts are secured to its supporting surface so that they are prevented from turning or shifting in position.	No such construction	N/A
Supplementary information: NIL			





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7	Connections	--	P
7.1	Field connections - general requirements	--	P
7.1.1	The module is provided with wiring terminals, connectors, or leads to accommodate current-carrying conductors of the load circuit	Provided.	P
7.1.2	Field connections are rated for exposure to direct sunlight as defined in Clause 5 of IS/IEC 61730-1	Satisfactory. Certified component used. See Annex 1	P
	Field connections are exposed to the degrading effects of direct sunlight.	Satisfactory. Certified component used. See Annex 1	P

7.2	Field wiring terminals	--	N/A
7.2.1	Field wiring terminal blocks are rated for the appropriate voltage and current for the application and constructed in compliance with IEC 60947-1.	No such terminals	N/A
7.2.2	Wiring terminals integral to the construction of the terminal enclosure comply with the following requirements:	--	N/A
7.2.2.1	Screws and nuts which clamp external conductors have a thread conforming with ISO 261 or ISO 262 (or comparable standards)	--	N/A
	The screws and nuts used for field wiring do not serve to fix any other component.	--	N/A
7.2.2.2	Terminal screws have a minimum nominal thread diameter as shown in Table 2 of IS/IEC 61730-1.	--	N/A
7.2.2.2.1	Stud terminals are provided with nuts and washers	--	N/A
7.2.2.3	Terminals are designed that they clamp the conductor between metal surfaces with sufficient contact pressure and without damage to the conductor	--	N/A
	Terminals are designed or located that the conductor cannot slip out when the clamping screws or nuts are tightened.	--	N/A
	Terminals are fixed suitably when the means of clamping the conductor is tightened or loosened:	--	N/A
	a) the terminal itself does not work loose	---	N/A
	b) internal wiring is not subjected to stress,	--	N/A
	c) creepage distances and clearances are not reduced below the values specified in clause 9 of IS/IEC 61730-1.	--	N/A

7.3	Connectors	--	P
7.3.1	The connector intended for use in the output circuit of the module is rated for the appropriate voltage and current, as per the requirements of the IEC 61984 series.	1500V, 45A for BOM 1 & 35A for BOM 2, See Annex 1	P
	Connectors comply with the requirements of Clause 5 of IS/IEC 61730-1, with respect to flammability, comparative tracking index and relative thermal endurance index for the support of live parts.	Certified connector used	P
7.3.2	The connector has been appropriately evaluated for disconnect overload performance.	Marked as Do not disconnect under load	P
7.3.3	Connectors intended for exposure to the outdoor environment are enclosed by material which complies with the following:	--	P





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	a) UV resistance in accordance with the requirements of Clause 5.	Certified connector used	P
	b) Resistance to inclusion of water acc. to IEC 60529 (equivalent to IP55)	IP 68	P
	c) Steel ball impact test acc. to IEC 60065, subclause 12.1.3 and Figure 8 with a vertical drop distance of 1 m.	Satisfactory	P
	d) Accessibility Test MST 11 of IS/IEC 61730-2	Certified connector used, See Annex 1. Also, see test result of IS/IEC 61730-2 MST 11.	P
7.3.4	Separable multi-pole connectors are polarised.	--	N/A
	If two or more separable connectors are provided, they are configured or arranged so that the other will not accept the mating connector for one.	--	N/A
7.3.5	For a connector incorporating a grounding member, the grounding member is the first to make and the last to break contact with the mating connector.	No grounding member in the connector	N/A
7.3.6	Connectors that can be separated without the use of a tool do not have accessible conductive parts, as determined under the Accessibility Test MST 11 of IS/IEC 61730-2.	Refer IS/IEC 61730-2 MST 11	P

7.4	Output lead or cables	--	P
	Leads extending from the module are rated for the appropriate system voltage, ampacity, wet locations, temperature and sunlight resistance	1500V, Certified component used	P

Supplementary information: NIL

8	Bonding And Grounding	--	P
8.1	If accessible conductive parts of the module form a perimeter framing or mounting system, or if the module has a conductive surface area of greater than 10 cm ² accessible after installation, then the module has provisions for grounding.	Grounding provision provided on the module frame. Grounding position and the way to grounding are stated in the installation manual.	P
8.2	If the module is rated as safety class II and provided with provisions for functional grounding, the functional grounding is isolated from live parts by reinforced insulation (Subclause 7.3.2.2 of IEC 61140).	Application Class A, Provides safety class II acc. to sec. 3.2	P
8.3	Each exposed conductive part of the module, that is assessable during normal operation, is bonded together, as verified by Ground Continuity Test MST 13 of IS/IEC 61730-2. Note: If conductive materials are used only as fasteners for installation and separated from the conductive components of the module by both appropriate insulation and spacings, they are not required to be bonded.	See test result of MST11 of IS/IEC 61730-2	P
8.4	Routine maintenance of the module does not involve breaking or disturbing the bonding path	Bonding path is not disturbed by routine maintenance	P
	A bolt, screw, or other part used for bonding purposes is not intended for securing the complete device.	No such parts	N/A
8.5	Bonding is by a positive means, such as clamping, riveting, bolted or screwed connections, or welding, soldering or brazing.	Hole provided on the frame for bolt.	P
	The bonding connection penetrates all nonconductive coatings, such as paint, anodised coatings or vitreous enamel.	--	P
8.6	All joints in the bonding path are mechanically secure	Bonding path is mechanically secured	P
8.7	If the bonding connection depends upon screw threads, two or more screws or two full threads of a single screw engage the metal.	No such construction	N/A





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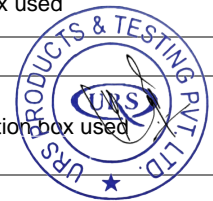
8.8	The diameter of the grounding screw or bolt is sized appropriately to the gauge of the bonding conductor, as per Table 2 of IS/IEC 61730-1.	Satisfactory (Diameter (Grounding hole): 4.13)	P
8.9	Ferrous metal parts in the grounding path are protected against corrosion by metallic or nonmetallic coatings.	No such part.	N/A
8.10	The module has metal-to-metal multiple-bearing pin-type hinges. These are considered to be an acceptable means for bonding.	No hinges used	N/A
8.11	A wiring terminal or bonding location is identified with the appropriate symbol (IEC 60417-5019) or has a green-coloured part.	Grounding symbol is marked near the location.	P
	No other terminal or location is identified in this manner.	Complied	P
8.12	If a marking is used to identify an equipment grounding terminal, it is located on or adjacent to the terminal, or on a wiring diagram affixed to the module or panel near the terminal.	Grounding symbol is marked near the location.	P

Supplementary information: NIL

9	Creepage and clearance distances	--	P
9.1	Creepage and clearance distances between uninsulated live parts not of the same potential and between a live part and an accessible metal part, are not less than the values specified in Tables 3 and 4 of IS/IEC 61730-1.	Satisfactory (see below)	P
	Minimum measured creepage and clearance distances between field wiring terminals (mm)	N/A	--
	Minimum measured clearance distances between internal current carrying parts and accessible points (mm)	26.5mm	--
9.2	Creepage and clearance distances at field wiring terminals have been judged on module open-circuit voltage (Voc).	--	N/A
	If additional unmarked terminals exist in the terminal block, or if wiring terminals are marked specifically for grounding, the creepage and clearance distances have been judged on the basis of the maximum system operating voltage.	--	N/A
9.3	The spacings at a field-wiring terminal have been measured with and without wire connected to the terminal	--	N/A
	If the terminal will properly accommodate it, and if the product was not marked to restrict its use, the wire is one size larger than that required, otherwise, the wire is of the required size	--	N/A
9.4	Surfaces separated by a gap of 0.4 mm or less have been considered to be in contact with each other.	--	N/A

Supplementary information: NIL

10	Field Wiring Compartments With Covers	--	P
10.1	General	--	P
	If the module is designed for the application of a permanently attached wiring system by an installer in the field, it is to be provided with an enclosed wiring compartment.	Certified junction box used	P
10.2	Wall thickness	--	P
	If the wiring compartment is intended for the attachment of a field-applied permanent wiring system, the minimum wall thickness for the material complies with Table 5 of IS/IEC 61730-1	Potted certified junction box used	P





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10.3	Internal volume	--	P
	The internal volume for each intended conductor complies with the requirements of Table 6 of IS/IEC 61730-1.	Potted certified junction box used	P
	In the space comprising the minimum required volume, no enclosure dimension is less than 20 mm.	Potted certified junction box used	P
10.4	Openings	--	P
	All openings are provided with appropriate coverings, whose functions comply with the requirements of:	--	--
	Subclause 5.2.1 of IS/IEC 61730-1	--	P
	Wet leakage Current test of Subclause 10.20 of IS 16077:2013/IEC 61646:2008 or 10.17 of IS 14286 (2010).	Refer Cl. No.: 10.17, IS/IEC 14286	P
	Accessibility test MST 11 of IS/IEC 61730-2	Refer MST 11, IS/IEC 61730-2	P
	Coverings can only be removed by the use of a tool	--	P
10.5	Gaskets and seals	--	N/A
	Gaskets and seals do not deteriorate beyond limits during accelerated ageing, and are not used where they may be subject to flexing during normal operation.	--	N/A
10.6	Strain relief	--	P
	Any strain relief is provided so that stress on a lead intended for field connection, or otherwise likely to be handled in the field, including a flexible cord, is not transmitted to the electrical connection inside the module. Note: Mechanical securement means which comply with Subclause 10.14 (Robustness of Terminations Test) of IS 14286 (2010) meet this requirement.	Refer MST 42, IS/IEC 61730-2	P
10.7	Sharp edges	--	P
10.7.1	The enclosure is smooth and free from sharp edges, burrs, or the like that may damage insulation or conductors	No sharp edges or burrs	P
10.7.2	The inner edges of conduit openings and knockouts are smooth and free from sharp edges, burrs, or the like that may damage insulation or conductors.	No conduit and Knockout	N/A
10.8	Conduit applications - Metallic	--	N/A
10.8.1	Any threaded hole in a metal wiring compartment intended for the connection of rigid metal conduit is reinforced to provide metal not less than 6,4 mm thick.	--	N/A
	Any threaded hole is tapered unless a conduit end stop is provided.	--	N/A

10.8.2.	If threads for the connection of conduit are tapped all the way through a hole in a compartment wall, there are not less than 3.5 nor more than 5 threads in the metal and the construction. was such that a conduit bushing can be attached as intended	--	N/A
	The construction is such that a conduit bushing can be attached as intended.	--	N/A
10.8.3	If threads for the connection of conduit are not tapped all the way through a hole in a compartment wall, there are not less than 5 full threads in the metal. and there was a smooth, rounded inlet hole for the conductors.	--	N/A
	There are smooth, rounded inlet holes for the conductors.	--	N/A
10.8.4	For a non-threaded opening in a metal wiring compartment intended to accommodate rigid metallic conduit, a flat surface of sufficient area is provided around the opening to	--	N/A





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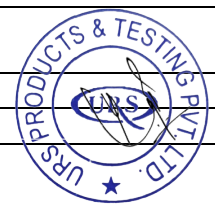
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	accept the bearing surfaces of the bushing and lock washer.		
10.8.5	Conduit complies with the Conduit bending test MST 33 of IS/IEC 61730-2.	--	N/A
10.9	Conduit applications - Non-metallic	--	N/A
10.9.1	The thickness of sides, end walls, and bottom of a non-metallic wiring enclosure specified for conduit applications is not less than the values specified in Table 7 of IS/IEC 61730-1.	--	N/A
10.9.2	A non-metallic wiring compartment intended to accommodate non-metallic conduit fulfils the following requirements:	--	--
	a) It has one or more unthreaded conduitconnection sockets;	--	N/A
	b) It has one or more threaded or unthreaded openings for a conduit-connection socket, or one or more knockouts that comply with the requirements of Knockout Test MST 44 of IS/IEC 61730-2;	---	N/A
	c) It complies with the Conduit Bending Test MST 33 of IS/IEC 61730-2, if intended for rigid nonmetallic conduit.	--	N/A
10.9.3	Sockets for the connection of non-metallic conduit provide a positive end stop for the conduit.	--	N/A
	The socket diameters, the throat diameter at the entrance to the box, the socket depths, and the wall thickness of the socket are within the limits specified in the applicable conduit system.	--	N/A
10.9.4	A knockout or opening in a non-metallic wiring compartment intended to accommodate rigid nonmetallic conduit complies with the dimensional requirements of the applicable conduit system	--	N/A
Supplementary information: NIL			

11	Marking	--	P
11.1	The module includes the following clear and indelible markings:	--	--
	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	1500Vdc	P
	Safety class (IEC 61140)	Class II symbol marked	P
	The date and place of manufacture are marked on the module or are traceable from the serial number	Place Marked Date (traceable from serial number)	P
11.2	The following additional markings are applied to either the module or placed into the instruction and installation data (required documents)	--	--
	Voltage at open-circuit	Provided	P
	Current at short-circuit	Provided	P
	Maximum over-current protection rating, as verified by the Reverse Current Overload Test MST 26 of IS/IEC 61730-2	Provided	P





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	Recommended maximum series/parallel module configurations	See installation manual	P
	Application class	CLASS A	P
	All electrical data are given relative to Standard Test Conditions (1000 W/m2 @ 25 °C) 11.3 Connectors suitable only for field assembly	Provided	P
11.3	Connectors suitable only for field assembly of modules are marked "Do not disconnect under load".	Provided	P
11.4	For modules with open-circuit voltage in excess of 50 V, and/or modules rated for maximum system voltage in excess of 50 V, a highly visible warning label regarding the shock hazard is applied near the means of connection to the module.	Warning provided on the label	P
Supplementary information: NIL			

12	Requirements for supplied documents	--	P
12.1	The module or panel is supplied with installation instructions describing the methods of electrical and mechanical installation and the electrical ratings of the module.	Provided	P
	The instructions state the application class under which the module was qualified and any specific limitations required for that application class	Provided	P
12.2	When the fire rating is dependent on a specific mounting structure, specific spacing, or specific means of attachment to the roof or structure, details of the specific parameter or parameters are included in the instructions.	Provided	P
12.3	The electrical installation instructions include a detailed description of the wiring method.	Provided	P
	The description of the wiring method includes the following information:	--	--
	Grounding method	Provided	P
	Size, type, and temperature rating of the conductors	Provided	P
	Recommended maximum series/parallel module configurations	Provided	P
	Type of over-current protection and diode bypassing to be used	Fuse rating 30A provided, Diode provided with the module	P
	Minimum cable diameters when the wiring method is cable	Provided in installation manual	P
	Any limitations on wiring methods that apply to the wiring compartment or box	Cables are not interchangeable	P
12.4	The mechanical installation instructions for roof mounting include:	--	--
	A statement indicating the minimum mechanical means for securing the module or panel to the roof	Provided	P
	A statement that the assembly is to be mounted over a fire resistant roof covering rated for the application (only for non-integral modules or panels)	Provided	P
	Indication of any slope required for maintaining a fire class rating	--	N/A
12.5	The installation instructions include a statement advising that artificially concentrated sunlight shall not be directed on the module or panel.	Provided	P
12.6	Assembly instructions are provided with a product shipped in subassemblies, and are detailed and adequate to the degree required to facilitate total assembly of the product.	No subassemblies	N/A
12.7	The installation instructions include the proposed statement given in this Subclause (or equivalent) to allow for increased output of the module resulting from certain conditions of use.	Provided	P
Supplementary information: NIL			





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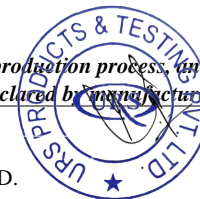
ANNEX 1: CONSTRUCTIONAL DETAILS

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

A1.2	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

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

A1.4	IDENTIFICATION OF MATERIALS
Front cover.....:	<p>High transmission low iron tampered AR Coated glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD. Alternate manufacturer:</p> <ol style="list-style-type: none"> VISHAKHA GLASS PRIVATE LIMITED BOROSIL RENEWABLES LIMITED FLAT GLASS GROUP CO., LTD CSG HOLDING CO., LTD HENAN ANCAI HI-TECH CO. LTD Shenzhen topray solar Zhejiang Ninghai KIBING SS GROW TECHNOCRATS Gold Plus Float Glass Private Limited WUJIANG CSG FLAT VIETNAM CO. LTD SBH KIBING SOLAR NEW MATERIALS M SDN BHD XINYI SOLAR MALAYSIA SDN BHD HENAN ANCAI HI TECH CO LTD XINYI SOLAR HONGKONG LTD <p><i>Note: Alternate Front cover having same materials,same production process, and same quality level, only change in manufacturer name as per declared by manufacturer.</i></p>
Rear cover.....:	<p>High transmission low iron tampered glass, Thickness: 2.0mm±0.20mm, Manufactured by XINYI SOLAR (MALAYSIA) SDN BHD.</p>





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		<p>Alternate manufacturer:</p> <ol style="list-style-type: none"> VISHAKHA GLASS PRIVATE LIMITED BOROSIL RENEWABLES LIMITED FLAT GLASS GROUP CO., LTD CSG HOLDING CO., LTD HENAN ANCAI HI-TECH CO. LTD Shenzhen topray solar Zhejiang Ninghai KIBING SS GROW TECHNOCRATS Gold Plus Float Glass Private Limited WUJIANG CSG FLAT VIETNAM CO. LTD SBH KIBING SOLAR NEW MATERIALS M SDN BHD XINYI SOLAR MALAYSIA SDN BHD HENAN ANCAI HI TECH CO LTD XINYI SOLAR HONGKONG LTD <p><i>Note: Alternate Rear cover having same materials,same production process, and same quality level, only change in manufacturer name as per declared by manufacturer.</i></p>	
	Encapsulation material.....:	<p>Main: 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</p> <p>Alternate: Front: Vishakha EPE, Thickness: Thickness: 0.50±0.10mm, Back: Vishakha EPE, Thickness: Thickness: 0.50±0.10mm Manufactured by VISHAKHA RENEWABLES PRIVATE LIMITED</p>	<p>BOM 1</p> <p>BOM 2</p>
	Frame parts.....:	<p>6005-T6, Anodized Aluminum Alloy, Thickness: 30mm, Manufactured by Anhui Xinbo Technology Co., Ltd</p> <p>Alternate manufacturer:</p> <ol style="list-style-type: none"> JIANGYIN TINZE NEW ENERGY TECHNOLOGY CO., LTD JIANGSU SULV NEW MATERIAL TECHNOLOGY CO., LTD FUZHOU ANTONG NEW MATERIAL TECHNOLOGY CO.,LTD Sudarshan Aluminium India Limited Regal Allufin Industries Regal Aluminum company Vishakha Metals Pvt. Ltd. J.M. Industries WUXI U PLUS TECHNOLOGY CO., LTD. Jiangyin Enor New Material Technology Co.,Ltd. (Lutong) Fujian Fenan Aluminium Co. LTD Jiangsu Dinghao Aluminium Technology Co., Ltd. Jiangyin Tianmu Green Energy Technology Co.,Ltd jiangyin PV Tech Chaoyang Yonz Technology Co., Ltd Mr Industries Zhejiang Jianxing Taihe New Energy Technology Co., Ltd Shandong Tianqu Aluminum Co. Ltd Galco Extrusions Pvt. Ltd Changzhou Lifeng Energy Technology Co; Ltd. Vinitech Metal Private Limited Dharmik Industries Jia Yue Group Co Ltd 	





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		<p>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</p> <p>Note: Alternate Frame having same Cross section, same framing material, same mounting technique, only change in manufacturer name as per declared by manufacturer.</p>	
	Mounting parts.....:	As per installation manual	
	Adhesive for frame.....:	<p>HT906Z, High-performance RTV sealant, White paste, Manufactured by Shanghai Huitian New Material Co., Ltd. Alternate manufacturer:</p> <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>Note: Alternate Adhesive for frame having same technical specification & same material, only manufacturer name change as Declared by manufacturer.</p>	
	Cell connector.....:	<p>Sn60%Pb40%, PV Ribbon (Round wire), ϕ0.26mm, Manufactured by TaiCang JuRen PV Material Co.,Ltd Alternate manufacturer:</p> <ol style="list-style-type: none"> 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>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.</p>	
	String connector.....:	<p>Sn60%Pb40%, Copper component: \geq99.99%, Dimension: $0.40 \pm 0.010\text{mm}^*4 \pm 0.10\text{mm}$, Manufactured by TaiCang JuRen PV Material Co.,Ltd Alternate manufacturer:</p> <ol style="list-style-type: none"> 1. Valeo Products LLP 	





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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, 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. 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 technical specification & same material, only manufacturer name change as Declared by manufacturer.</i>	
Adhesive for junction box.....:	HT906Z, High-performance RTV sealant, White paste, 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 Adhesive for junction box having same technical specification & 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 & same material, only manufacturer name change as Declared by manufacturer.</i>	

A1.5	MODULE DESIGN - MINIMUM DISTANCES
	Between cells.....:
	Between cell and edge of laminate.....:





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	Between any current carrying part and edge of laminate...:		26.5mm
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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 2: PHOTOGRAPHS OF EUT





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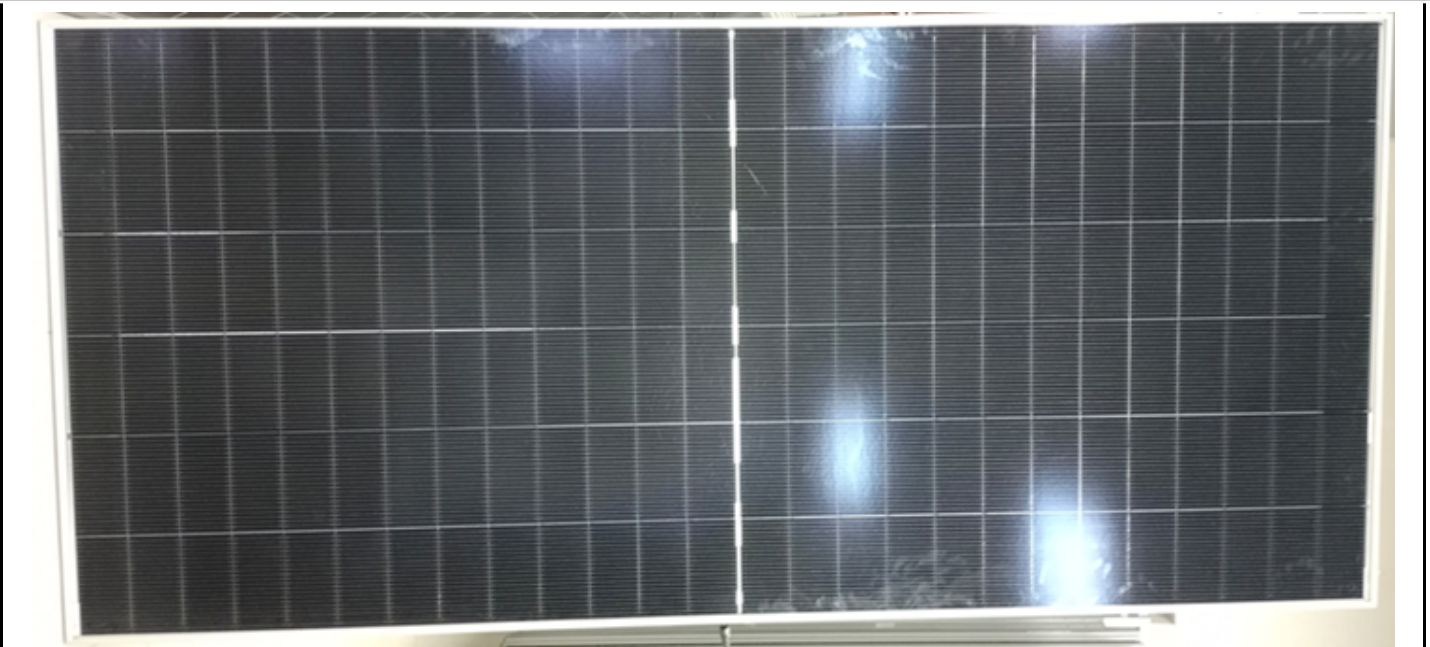
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Front view (BOM 1)



Junction Box closed view(BOM 1)



Junction Box opened view(BOM 1)



Negative Connector(BOM 1)



Positive Connector(BOM 1)





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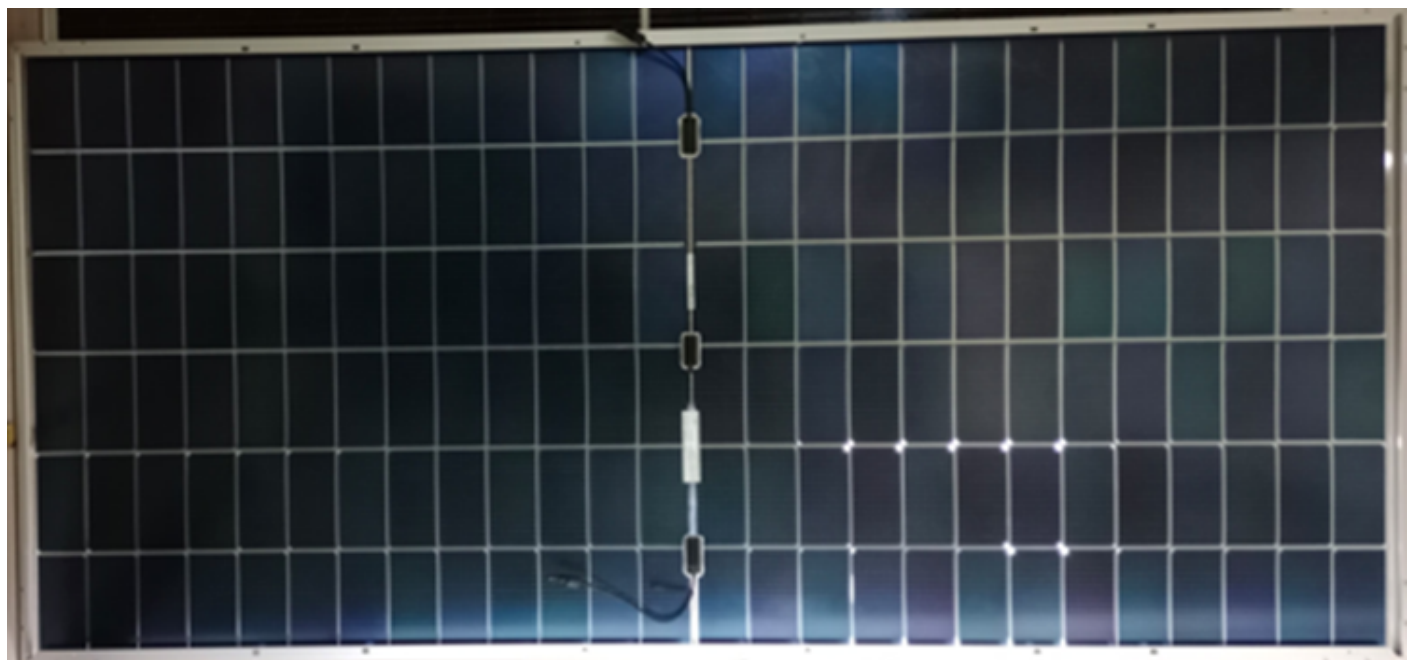
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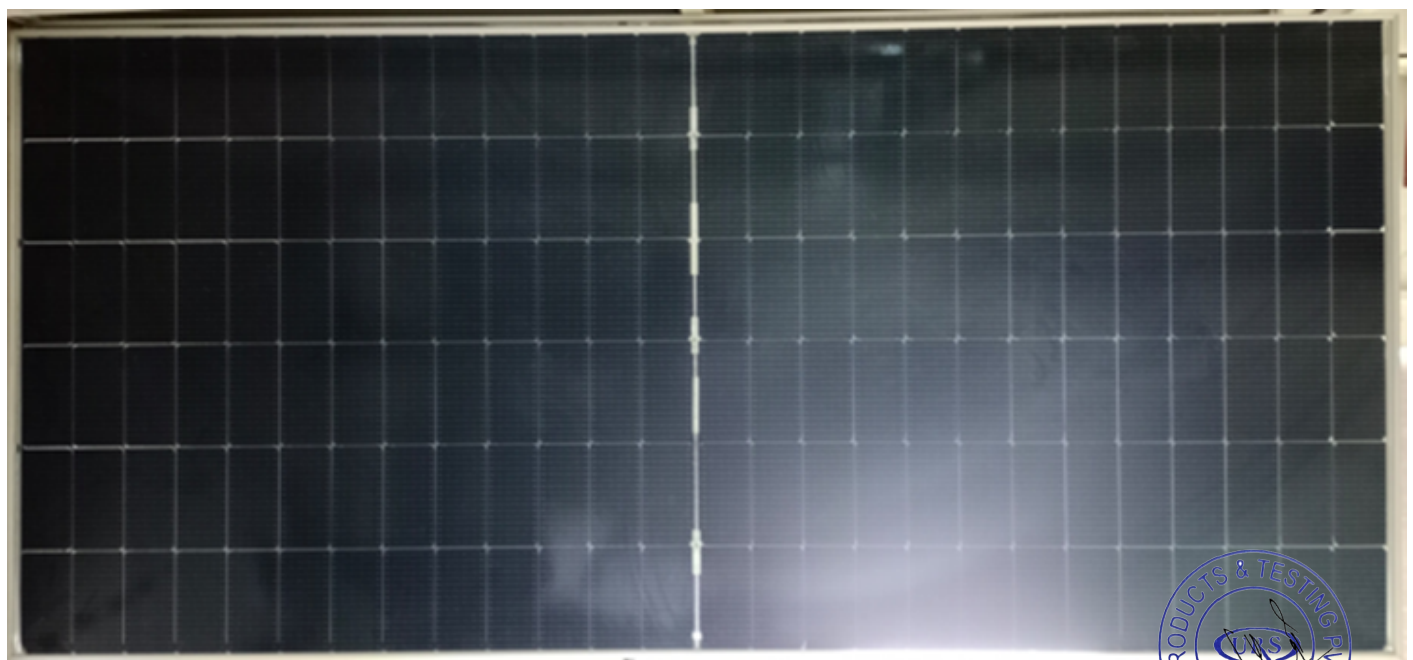
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Rear view (BOM 2)



Front view (BOM 2)





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Junction Box closed view(BOM 2)



Junction Box opened view(BOM 2)



Negative Connector(BOM 2)



Positive Connector(BOM 2)





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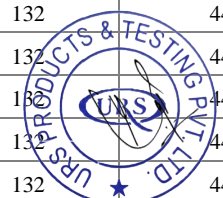
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Annex 3: Specification of PV Modules

Model	System Voltage (V)	Electrical Rating					Fuse Rating (A)	Dimension			Total no. of cells (Cut cells) (no.)	No of cells per by bypass diode (no.)
		Voc (V)	Vm (V)	Isc (A)	Im (A)	Pm (W)		L (mm)	W (mm)	H (mm)		
AS-156TG-650 (Representative & retested Model)	1500	57.00	46.09	14.83	14.11	650	30	2466	1134	30	156	52
AS-156TG-645	1500	56.85	45.99	14.76	14.03	645	30	2466	1134	30	156	52
AS-156TG-640	1500	56.70	45.89	14.69	13.95	640	30	2466	1134	30	156	52
AS-156TG-635	1500	56.55	45.79	14.62	13.87	635	30	2466	1134	30	156	52
AS-156TG-630	1500	55.71	45.96	14.37	13.71	630	30	2466	1134	30	156	52
AS-156TG-625	1500	55.56	45.86	14.30	13.63	625	30	2466	1134	30	156	52
AS-156TG-620	1500	55.41	45.76	14.23	13.55	620	30	2466	1134	30	156	52
AS-156TG-615	1500	55.26	45.66	14.16	13.47	615	30	2466	1134	30	156	52
AS-156TG-610	1500	55.11	45.56	14.09	13.39	610	30	2466	1134	30	156	52
AS-156TG-605	1500	54.96	45.46	14.02	13.31	605	30	2466	1134	30	156	52
AS-144TG-600	1500	54.81	45.36	13.95	13.23	600	30	2278	1134	30	144	48
AS-144TG-595	1500	54.66	45.26	13.88	13.15	595	30	2278	1134	30	144	48
AS-144TG-590	1500	54.51	45.16	13.81	13.07	590	30	2278	1134	30	144	48
AS-144TG-585	1500	54.36	45.06	13.74	12.99	585	30	2278	1134	30	144	48
AS-144TG-580	1500	51.48	42.84	14.25	13.55	580	30	2278	1134	30	144	48
AS-144TG-575	1500	51.31	42.72	14.17	13.47	575	30	2278	1134	30	144	48
AS-144TG-570	1500	51.14	42.60	14.09	13.39	570	30	2278	1134	30	144	48
AS-144TG-565	1500	50.97	42.48	14.01	13.31	565	30	2278	1134	30	144	48
AS-144TG-560	1500	50.80	42.36	13.93	13.23	560	30	2278	1134	30	144	48
AS-144TG-555	1500	50.63	42.24	13.85	13.15	555	30	2278	1134	30	144	48
AS-144TG-550	1500	50.46	42.12	13.77	13.07	550	30	2278	1134	30	144	48
AS-144TG-545	1500	50.29	42.00	13.69	12.99	545	30	2278	1134	30	144	48
AS-144TG-540	1500	50.12	41.88	13.61	12.91	540	30	2278	1134	30	144	48
AS-132TG-535	1500	49.95	41.76	13.53	12.83	535	30	2092	1134	30	132	44
AS-132TG-530	1500	47.07	39.95	13.94	13.27	530	30	2092	1134	30	132	44
AS-132TG-525	1500	46.90	39.83	13.86	13.19	525	30	2092	1134	30	132	44
AS-132TG-520	1500	46.73	39.71	13.78	13.11	520	30	2092	1134	30	132	44
AS-132TG-515	1500	46.56	39.59	13.70	13.03	515	30	2092	1134	30	132	44
AS-132TG-510	1500	46.39	39.46	13.62	12.95	510	30	2092	1134	30	132	44
AS-132TG-505	1500	46.22	39.31	13.54	12.87	505	30	2092	1134	30	132	44





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AS-132TG-500	1500	46.05 39.16 13.46 12.79 500	30	2092	1134	30	132	44
AS-132TG-495	1500	42.77 36.77 14.16 13.47 495	30	2092	1134	30	132	44
AS-132TG-490	1500	42.59 36.62 14.08 13.39 490	30	2092	1134	30	132	44
AS-120TG-485	1500	42.41 36.47 13.99 13.31 485	30	1908	1134	30	120	40
AS-120TG-480	1500	42.23 36.32 13.91 13.23 480	30	1908	1134	30	120	40
AS-120TG-475	1500	42.05 36.17 13.82 13.15 475	30	1908	1134	30	120	40
AS-120TG-470	1500	41.87 36.02 13.74 13.07 470	30	1908	1134	30	120	40
AS-120TG-465	1500	41.69 35.87 13.65 12.99 465	30	1908	1134	30	120	40
AS-120TG-460	1500	41.51 35.70 13.57 12.91 460	30	1908	1134	30	120	40
AS-120TG-450	1500	38.51 33.17 13.57 13.57 450	30	1908	1134	30	120	40
AS-120TG-445	1500	38.33 33.01 13.49 13.49 445	30	1908	1134	30	120	40
AS-120TG-440	1500	38.15 32.85 13.41 13.41 440	30	1908	1134	30	120	40



-----End of test Report-----