

SOLAR POWER PLANTS BY GAUTAM SOLAR

Gautam Solar Benefits



Other EPC Providers

Terms and Conditions:

- •All warranties are extended directly by the OEMs.
- •Claims fulfillment will be managed directly by the OEMs.
- EPC's role is limited to coordinating between the OEM and the client.

EPC by Gautam Solar

Terms and Conditions:

- •All warranties on Solar Panels are extended directly by Gautam Solar.
- •Claims fulfillment for issues related to Solar Panels will be managed directly by Gautam Solar.
- Gautam Solar will also coordinate between the OEMs of other components and the client.

Why Gautam Solar is ideal for large power plants?

- Gautam Solar is both a Solar Panel Manufacturer & EPC company.
- Warranty on both Power Plant & Solar PV Panels by Gautam Solar itself.
- Zero hassle of dealing with different Solar PV Manufacturer & EPC company.
- •Well established financially strong company with 1000+ manpower & 4 factories providing EPC services & warranties.

What makes Gautam Solar the ideal partner for Solar Power Plants?

TECHNICALLY ADVANCED SOLAR PANELS

• High-efficiency Solar Panels

• Fully Automated Manufacturing Setup

GAUTAM

SOLAR

• A+ grade raw materials

• Latest Technology

PROVEN TRACK RECORD WITH FOCUS ON QUALITY

• Quality Testing

Global Certification

• Patents and IPs

• Case Studies

FINANCIALLY SECURE COMPANY WITH STRONG LEADERSHIP

- Top 10 Indian Solar Manufacturer
- Strong Top Management

- 27+ Years Expertise
- Financial Strength

• Future Expansion Roadmap

GAUTAM SOLAR

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SOLAR PANELS

Fully Automated Manufacturing Setup

GAUTAM SOLAR



ADVANTAGES of using Top-Notch Machines:
 ✓ Precision and Accuracy in Engineering
 ✓ Minimized Errors and Defects
 ✓ Increased Production Yield

Robotic Layup

GAUTAM SOLAR

Using **ROBOTIC LAYUP** instead of conventional Gantry Layup in production:

- ✓ Enhances Production Yield
- ✓ Ensures Precise String Positioning on EVA Sheet

- ✓ Solves String Misalignment
- ✓ Boosts overall panel performance and durability

 Robotic Layup requires higher investment
 Adoption of latest technology provides a competitive edge and positions Gautam Solar as an industry leader

Fully Automatic High-Speed MBB Stringer

ound Ribbon Higher Light Utilization

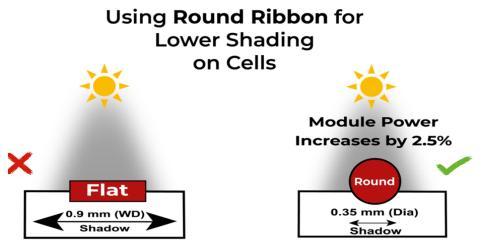
GAUTAM SOLAR



- Using "MERCEDES OF SOLAR STRINGERS" to ensure:
- Lower Electrical Losses due to MBB Design
- ✓ Higher Accuracy with CCD Positioning
- Reduced Errors due to Non-contact Infrared Soldering
- Require more investment than conventional stringers
- Provides long term benefits like enhanced durability
- Ensures customer satisfaction

Going from Flat to Round Ribbon



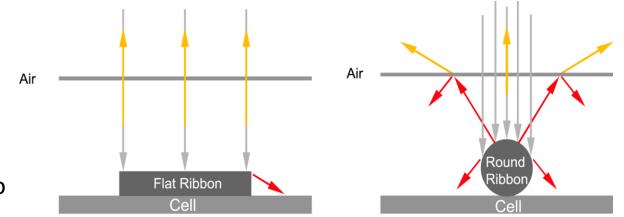


Gautam Solar's panels utilize round ribbon instead of flat ribbon in Multi-Busbar (MBB) layout:

Round Ribbon occupy less surface area of the solar cell compared to Flat Ribbon.

•Lower Shading Losses by 75% and Increasing Module Power Output by 2.5%.

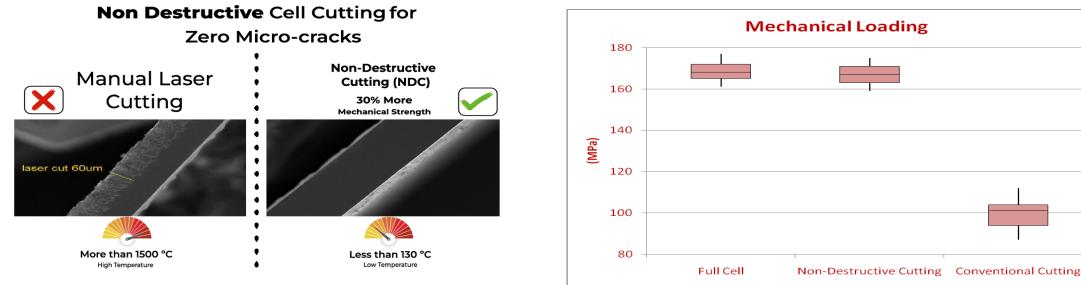
- Round ribbon also provide Higher Light Utilization as more light gets trapped inside the glass.
- Nearly 70% of Light striking the surface of Round Ribbon is converted into electricity due to multiple reflections.
- Only 5-10% light falling on Flat Ribbon is converted into electricity as most of the light is reflected outside.



Round Ribbon technology only works on MBB Cell Soldering Stringers, which Requires Higher Investment than conventional stringers.

Non-Destructive Cutting (NDC) vs. Conventional Cutting





Gautam Solar's panels utilize half-cut cells formed by NDC process:

Non-Destructive Cutting (NDC)	Conventional Cutting
 Cells split by Low Temperature Laser (<130°C) using controlled thermal stress 	 Cells split by High Temperature Laser (>1500°C) with mechanical separation
 Negligible chances of Micro-cracks 	 Higher chances of Micro-cracks
 High Mechanical Strength (similar to full cell) 	 Low Mechanical Strength (≈ half of full cell)
No Heat Affected Zone formation	• Formation of Heat Affected Zone (80-150 μm)
• Requires High Investment for Specialized Machine	Requires Low Investment

Solar Panel Curing Line/Room



Gautam Solar utilizes an Advanced, Fast Curing Technique with benefits:

- Enhanced Longevity and Performance of Panels
- ✓ Automatic Loading and Unloading
- ✓ Energy Efficient and Eco-friendly

 Some manufacturers don't employ dedicated curing room

- Caused by capital/space constraints
- Detrimental to quality of panels

Automatic Sorting for Module (Imp) Binning

GAUTAM SOLAR

✓ Sort modules according to test results

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- ✓ Easy Handling of modules
- Automatic and Precise arrangement of modules
- ✓ I_{mp} Binning reduces String mismatch losses

A+ Grade Raw Material





Material	Property
Solar Cells	LID-Resistant
Glass	Tempered Glass with Anti-reflective (AR) Coating
EVA	UV-Resistant, PID Free
Backsheet	Moisture-resistant, high transmittance
Junction Box	IP68 rated Split Junction Box
Frame	Made of Anodized Aluminium

Ensures high efficiency, reliable power generation and long-term durability

Solar Panels Product Range





Panels	Mono PERC Bifacial (Glass to Backsheet)	Mono PERC Monofacial	N-type TOPCon
Wattage	540 Wp – 560 Wp	540 Wp – 560 Wp	580 Wp – 590 Wp
Max. Efficiency	21.68%	21.68%	22.84%
Year 1 Degradation	2%	2%	1%
Subsequent	0.55%	0.55%	0.40%
Degradation			
Product Warranty	10 Years	10 Years	10 Years
Performance Warranty	25 Years	25 Years	30 Years
Extra Power	10%-30% (Depends		10%-30% for Bifacial
from Rear	upon weather and installation)	-	(Depends upon weather and installation)

GAUTAM SOLAR

PROVEN TRACK RECORD WITH A FOCUS ON QUALITY

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Quality Testing



30+ Internal Quality Tests including Visual inspection, Performance testing etc.

Tested and Certified by Independent
 Testing Laboratories according to industry standards

"Quality is at the heart of everything we do at Gautam Solar"

Internal Tests

GAUTAM



VISUAL INSPECTION

For quick quality check using a 90° Rotation and Strong Vacuum system for holding the panels.

EL TESTING

100% Pre- and Post-Lamination Electroluminescence testing for detecting defects like microcracks, hot spots, etc.



HIPOT TESTING

For Isolation Testing of Solar Panels at high voltage to ensure electrical safety.

External Tests

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THERMAL CYCLE TEST

Thermal cycling between -40°C to +85°C over 200 testing cycles as per IEC/UL Standards to ensure resilience against thermal fatigue.



SALT MIST CORROSION TEST

For ensuring resistance against corrosive effect of salt present in air, especially required for panels in coastal regions and offshore installations.



HAIL TEST

Tested against 25mm hailstone at speed of 84 km/h for resiliency against high-velocity impacts, suitable for regions with inclement weather.

External Tests



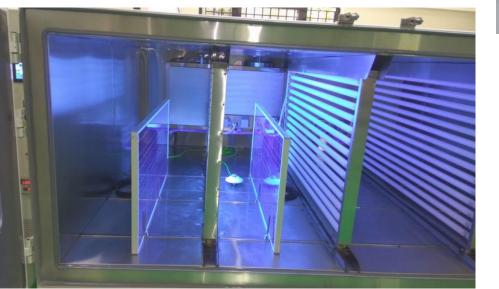


DYNAMIC MECHANICAL LOAD TEST

Tested to withstand dynamic loads of ±5000 Pa over 200 cycles, to simulate the impact winds have on the mechanical properties of panels.

UV PRECONDITIONING TEST

Subjects panels to UV radiation up to 5 times the sun's intensity, helping identify issues like delamination and encapsulant discoloration.





SAND AND DUST TEST

Tested against sand grains blown from 4 different positions for 90 minutes each at 9m/s to withstand effect of sand and dust in desert regions.

External Tests





NH₃ CORROSION TEST

Tested against 6667 ppm NH_3 concentration for 480h (20 cycles) for corrosion testing, suitable for solar farms and chemical plants with high levels of NH_3 .



POTENTIAL INDUCED DEGRADATION (PID) TEST

Panels subjected to 60°C, 85% humidity under 1000V for 96 hours for testing effect of PID on panel performance.



TRANSPORTATION TEST

Simulates Road Transportation through vibration and shock tests for ensuring safety and reliability of panels during transportation.

BIS Certified Solar Panels



diam BTS:

Tours taittrary, (Avik Datta) Scientist-C Telfax : +91-11-25230856 E-mail: registration@bis.gov

Date:08-09-2021



ALMM Approved (MNRE, Gol) Solar Panels

GAUTAM SOLAR

F. No. 283/54/2018-GRID SOLAR-Part(1) भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New & Renewable Energy

ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Atal Akshay Urja Bhawan, Lodhi Road, New Delhi – 110003. Dated: 24th January, 2024

OFFICE MEMORANDUM

Sub: Updation of List I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 – Reg.

Ref: (i) MNRE's O.M. No. 283/54/2018-GRID SOLAR-Part(1) dated 10.03.2021 (ii) MNRE's O.M. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023;

Reference is invited to this Ministry's O.M.s of even no. dated 10.03.2021, regarding implementation of Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 and publishing List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019.

 This Ministry vide its O.M. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023 had issued major reforms in the Approved List of Models and Manufactures for Solar Photovoltaic Modules which interalia include enlistment of only such models of Solar PV Module Manufacturers, under ALMM, which comply with the BIS Standards and are having the following minimum module efficiency:

Category	Application/ Use	Minimum Module Efficiency required to be eligible for enlistment under ALMM
Category I	Utility / Grid Scale Power Plants	20.0%
Category II	Rooftop and Solar Pumping	19.5%
Category III	Solar Lighting	19.0%

 Post 10.05.2023, only such models of Solar PV Modules have been considered for enlistment under ALMM List-I, whose module efficiency is equal to or greater than 19.00%.

 The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 was last updated on 16.11.2023.

 The List – I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XX of same is enclosed at Annexure-I. The details of provisional enlistments granted by MNRE in ALMM List-I are at pages after Annexure-I.

6. The ALMM enlistment validity is subject to valid BIS Registration; else to be deemed delisted.

7. The details of Registration Number (R. No.) which has been allotted by BIS is mentioned against each manufacturer/ manufacturing unit enlisted in ALMM and further details related to BIS certification like validity, models included etc., may be checked from BIS website by using the following link: https://www.crsbis.in/BIS/Lims_registrationc.do?hmode=getLimsData

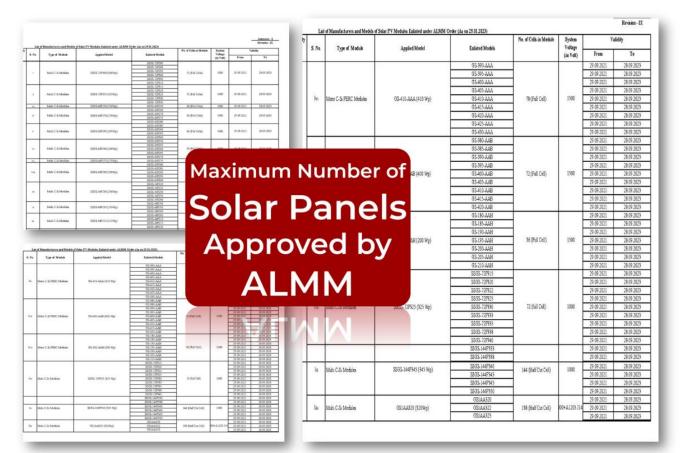
8. This issues with the approval of competent authority.



Encl: As above

To: All Concerned

Copy to: Director (Technical), NIC, MNRE for uploading this document on MNRE's website



Certified as per UL Standards







UL 61215 & UL 61730 Standards

Certified as per EN/CE & IEC Standards

GAUTAM SOLAR



VERIFICATION OF COMPLIANCE

No.:	LVD SHES2304007023PV
Applicant:	Gautam Solar Private Limited
	Plot No-67-70, SECTOR 8A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403, India
Manufacturer:	Gautam Solar Private Limited
	Plot No-67-70, SECTOR 8A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403, India
Product Name:	Photovoltaic (PV) Module(s)
Product Description:	Photovoltaic (PV) Module(s)
Model No.:	See Page 2-3
Trade Mark:	
Rating:	Max. system voltage: 1500V
Protection against Electric Shock:	Application class: Class A
Degree of Protection:	Protection class: Class II
Additional Information:	Refer to test report
Sufficient samples of the product have t	been tested and found to be in conformity with
Test Standard:	EN 61730-1 :2018 EN 61730-2 :2018
as shown in the	
Test Report Number(s):	SHES230400702302
by Laboratory of SGS-CSTC Standard product in accordance with the provisi Directive 2014/35/EU. The CE markin manufacturer, after completion of an E	en granted to the applicant based on the results of tests, performed s Technical Services Co., Ltd. on sample of the above-mentioned ons of the relevant harmonized standards under the Low Voltage g as shown below can be affixed, under the responsibility of the C Declaration of Conformity and compliance with all relevant EC ng presumes in addition that the conditions in annexes III and IV of

the Directive are fulfilled. CE Andrew Zha 2023-09-14 Technical Mana SGS-CSTC This verification is issued by the company under its General Conditions of Services accessible at https://www.sgs.com/en/terms-and-conditions. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this verification. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Member of SGS Group (Société Générale de Surveillance) Safety-VOC-F01/ Rev. 1.0/ 2021-EN 61730 Standards

Tüv

ZERTIFIKAT	NR. PVC23126	i 1	SEITE 1/3 PAGE(S)	
GAUTAM SOLAR PRI PLOT NO-67-70, SEC IIE RANIPUR, HARID UTTARAKHAND, 249	TOR 8A, SIDCUL, PI WAR, III	OT NO-67-7 RANIPUR,	AR PRIVATE LIMITED 0, SECTOR 8A, SIDCUL, HARIDWAR, D, 249403, INDIA	
Projekt-Nr/-ID	GENEHMIGTES PRU	FZEICHEN	Prüfberichts-Nr. TEST REPORT NO.	
SHES2304007023PV 6727822	TUV IEC	51215 51730 lical Inspection gs-tuev-sear.com PVC231261	SHES230400702301 SHES230400702302	
Zertifizierte(s) Produkt(e) Certified product(s)	Crystalline Silicon PV	Modules		
Technische Daten	Details of certified sol test report(s).	ar module(s)	are documented in the	
Geprüft nach Tested eccording to	 IEC 61215-1:202 IEC 61215-1-1:20 IEC 61215-2:202 IEC 61730-1:201 IEC 61730-2:201 	021 1 6		
Bemerkung(en) Ramark(s):	tests. Any changes t	o the design repetition of s	I based on voluntarily product , materials, components or ome of the qualification tests	
Längste Gültigkeitsdauer Latest validiy date	13.09.2028			
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Website: www.sgstuev.de	F8-ZP5-050-		E-mail: de.sgs.tuv.gs@sgs.com	AN I

IEC 61215 & IEC 61730 Standards

Page 1 of 3

GAUTAM SOLAR



► IEC 62759-1:2022 Transportation Test

Shock, vibration, impact and drop tests for safe and reliable transportation of solar panels.

➢IEC 60068-2-68 Sand and Dust Test

Testing for determining the effects of dust and sand on solar panels.

>IEC 60068-2-14 Ambient Temperature Changes (DH1000)

Testing for determining effects of change in temperature on solar panels.

>IEC 60068-2-38 Composite Temperature/Humidity Cyclic Test (HF10)

Testing for determining resistance of solar panels to combined effects of high temperature/humidity and cold conditions.

VERIFICATION OF COMPLIANCE

No.:	SHES2306011480PV-02
Applicant/ Manufacturer:	Gautam Solar Private Limited
Address:	Plot No-67-70, SECTOR 8A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403
Manufacturer:	Gautam Solar Private Limited
Address:	Plot No-67-70, SECTOR 8A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403
Trade Mark:	
Factory:	Gautam Solar Private Limited
Address 1:	Plot No-67-70, SECTOR 8A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403
Address 2:	Plot No.114-115 Sector -6A, SIDCUL, IIE RANIPUR, HARIDWAR, UTTARAKHAND, 249403
Product Description:	Photovoltaic (PV) module(s) and shipping unit
Protection against Electric Shock:	Class II
Detail of shipping unit	Refer to page 2, Annex 1
Model/Type reference	Refer to page 3, Annex 2
Sufficient samples of the product h	ave been tested and found to be in conformity with
Test Standard:	IEC 62759-1:2022 Transportation test IEC 60068-2-68 Sand and dust test IEC 60068-2-14 Ambient temperature changes (DH1000) IEC 60068-2-38 Composite temperature/humidity cyclic test (HF10)
as shown in the Test Report Number(s):	SHES230601148072
This Verification of Compliance in Laboratory of SGS-CSTC Standa accordance with the provisions of Androwy Thei	as been granted to the applicant based on the results of tests, performed by ds Technical Services Co., Ltd. on sample of the above-mentioned product in he roy and specific standards.
Technical Manager	2023-07-25
SGS-CSTC	CSCSCSCSCSCSCSCSCSCSCSCSCSCSCSCSCSCSCS
full and with the prior approval of the Services which can be accessible a	a by SOS-CSTC Standards recrinical services Soc. Ltd. and may not be reproduced other than in the General Manager. This verification is subjected, to the governance of the General Conditions of t <u>https://www.sgs.com/en/terms-and-conditions</u> . nber of SGS Group (Société Générale de Surveillance)

Other IEC Standards: Going Above and Beyond

4

Date: 18/01/2023

To, M/s. Gautam Solar Private Limited Plot no. 67-70, Sec-8A, IIE, SIDCUL, Haridwar-249403, Uttrakhand, India

Sub: Statement of Compliance Letter for Salt-mist(Sev-1) Testing for One BOM of PV Modules

This is to inform you that we have completed Salt-mist (Sev-1) testing on your submitted Crystalline Photovoltaic Module Model G2X450-HAA under project no- 4790633004 and after the successful completion of testing, all the samples met the compliance criteria of degradation less than 5% with satisfactory results and complied with the test standard. The final test report has been issued to M/S Gautam Solar Private Limited with report no. 4790633004 issue dated 17/01/2023.

Standard: IEC 61701 Edition 3.0, 2020-06- Photovoltaic (PV) modules - Salt mist corrosion testing (Sev-1).

Models covered:

(156 Half Cut Cells Family and Max. system voltage 1500V) G2XBifacial1767-HAE, G2XBifacial1760-HAE, G2XBifacial1754-HAE, G2XBifacial1747-HAE, G2XBifacial1741-HAE, G2XBifacial1734-HAE, G2X595-HAE, G2X590-HAE, G2X585-HAE, G2X580-HAE, G2X575-HAE, G2X570-HAE, G2X565-HAE.

(144 Half Cut Cells Family and Max. system voltage 1500V) G2XBifacial1715-HAD, G2XBifacial1708-HAD, G2XBifacial1702-HAD, G2XBifacial1695-HAD, G2XBifacial1689-HAD, G2XBifacial1682-HAD, G2XBifacial1676-HAD, G2XBifacial1669-HAD, G2XBifacial1663-HAD G2X550-HAD, G2X545-HAD, G2X540-HAD, G2X535-HAD, G2X530-HAD, G2X525-HAD, G2X555-HAD, G2X520-HAD, G2X515-HAD, G2X510-HAD,

(132 Half Cut Cells Family and Max. system voltage 1500V)

G2XBifacial1656-HAB, G2XBifacial1650-HAB, G2XBifacial1643-HAB, G2XBifacial1637-HAB, G2XBifacial1630-HAB, G2X505-HAB, G2X505-HAB, G2X500-HAB, G2X495-HAB, G2X490-HAB, G2X485-HAB.

(120 Half Cut Cells Family and Max, system voltage 1500V) G2XBifacial1598-HAA. G2XBifacial1591-HAA, G2XBifacial1585-HAA, G2XBifacial1572-HAA, G2XBifacial1572-HAA, G2X460-HAA, G2X455-HAA, G2X450-HAA, G2X445-HAA, G2X440-HAA

Salt Mist Test

UL India Phrate Limited Registered Office: Salyani Platina - Block L 3rd Floor No. 34, EPP Zone, Phase L Wintefield, Bangalore - 560066, India 7, 9180.0138.4000 / F. 9180.2841.3359 / W. ul.com CIN-LU342006XL9947PTC0221869

Disclaimer: Test results apply only to the sample(s) actually tested by UL LLC. The client provided all of the test samples for testing by UL. UL did not select the samples or detarmine whether the samples provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveilance of the product. The client and or manufacturer are solely and fully responsible for conformity of all products to all applicable standards, specifications or requirements. UL Logs and Marks shall not be used in connection with the above tested product(s). Only those products bearing the UL Listing and Classification Marks should be considered as being covered by UL's Listing, Classification and Follow-Up Service. Lock for the UL Listing and Classification Mark on the product.

GAUTAM SOLAR

Date: 17/05/2023

To, M/s. Gautam Solar Private Limited Plot no. 67-70, Sec-8A, IIE, SIDCUL, Haridwar-249403, Uttrakhand, India

Sub: Statement of Compliance Letter for Ammonia Testing for One BOM of PV Modules

This is to inform you that we have completed Ammonia testing on your submitted Mono Crystalline Photovoltaic Module with model: G2X550-HAD under project no- 4790711429 and after the successful completion of testing, all the samples met the compliance criteria of degradation less than 5% with satisfactory results and complied with the test standard as mentioned below. The final test report has been issued to Gautam Solar Private Limited with report no. 4790711429-S1, issued dated 17/05/2023 (dd/mm/yyyy).

Standard: IEC 62716 Edition 1.0 2013-06- Photovoltaic (PV) modules - Ammonia corrosion testing.

Model covered	 144 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1715-HAD, G2XBifacial1708-HAD, G2XBifacial1702-HAD, G2XBifacial1695- HAD, G2XBifacial1689-HAD, G2XBifacial1682-HAD, G2XSIfacial1676-HAD, G2XBifacial1669-HAD, G2XBifacial1683-HAD, G2X550-HAD, G2X515-HAD, G2X510-HAD, G2XS35-HAD, G2X530-HAD, G2X525-HAD, G2X520-HAD, G2X515-HAD, G2X510-HAD, 132 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1650-HAB, G2XBifacial1680-HAB, G2XBifacial1643-HAB, G2XBifacial1637- HAB, G2XBifacial1650-HAB, G2X505-HAB, G2X500-HAB, G2X495-HAB, G2X490-HAB, G2XBifacial1630-HAB, G2X505-HAB, G2XBifacial1643-HAB, G2XBifacial1637- HAB, G2XBifacial1598-HAA. G2XBifacial1591-HAA, G2XBifacial1585-HAA, G2XBifacial1578- HAA, G2XBifacial1572- HAA, G2X460-HAA, G2X455-HAA, G2X450-HAA, G2X445-HAA, G2XBifacial1539-HAY, G2XBifacial1533-HAY, G2XBifacial1526-HAY, G2XBifacial1520- HAY, 96 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1539-HAY, G2XBifacial1533-HAY, G2XBifacial1526-HAY, G2XBifacial1520- HAY, 96 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1474-HAX, G2XBifacial1468-HAX, G2XBifacial1461-HAX, G2XBifacial1520- HAY, 96 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1474-HAX, G2XBifacial1468-HAX, G2XBifacial1451-HAX, G2XBifacial1520- HAY, 96 Half Cut Cells Family and Max. system voltage 1500V G2XBifacial1474-HAX, G2XBifacial1468-HAX, G2XBifacial1461-HAX, G2XBifacial1455- HAX, G2X365-HAX, G2X360-HAX, G2X355HAX, G2X350-HAX.
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Sincerely Yours,



UL India Private Limited

CIN: U74200KA1997PTC023189

Registered Office: Kalyani Platina - Block I, 3rd Floor

1:9180.4138.4400 / F: 9180.3841.3759 / W. ul.com

No. 24, EPIP Zone, Phase II, Whitefield, Bangalore - \$60066, India

Engineer Project Associate UL India Private Limited.



Disclaimer: Test results apply only to the sample(s) actually tested by UL LLC. The client provided all of the test samples for testing by UL. UL did not select the samples or determine whether the samples provided were representative of other manufactured products. UL has not established Follow-Up Service or other samvellance of the product. The client and or manufacturer are solely and fully responsible for conformity of all products to all applicable standards, specifications or requirements. UL Logo and Marks shall not be used in connection with the above tested product(s). Only those products bearing the UL Listing and Classification Marks should be considered as being covered by UL's Listing. Classification and Follow-Up Service. Lock for the UL Listing and Classification Mark on the product.

Other IEC Standards: Going Above and Beyond



Potential Induced Degradation Test Certificate

As Per The Test Report No. TECHLAB/TR/22/12/0129 Dated 12/12/2022 the Photovoltaic Modules bearing Model G2X550-HAD manufactured and submitted By M/s Gautam Solar Private Limited, Plot No-67-70, Sector 8A, SIDCUL, IIE Ranipur, Haridwar, Uttarakhand, 249403, India; tested at Techlab Testing And Research Institute Pvt. Ltd. meets the requirement to pass the Potential Induced Degradation Test as per MNRE Specifications following the test procedure as per IEC TS 62804-1: 2015.

Test Condition: 4 Modules [2(+V) And 2(-V)] Biased at 1500 V and Subjected to 3 Cycles at 85% Relative Humidity and 85°C Temperature for 96 Hours in an Environmental Chamber (Test Procedure as per IEC TS 62804-1: 2015)

Model Tested: G2X550-HAD

Types Extended for Similarity with Mono Crystalline Silicon Solar Cell Technology as per IEC TS 62804-1: 2015 (Modules Made with Half Cut Cell and No Change in Bill of Material)

Modules Covered: Monocrystalline Modules - Model Range

(144 Half Cut Cells Family and Max. system voltage 1500V) G2X550-HAD, G2X545-HAD, G2X540-HAD, G2X535-HAD, G2X530-HAD, G2X525-HAD, G2X520-HAD, G2X515-HAD, G2X510-HAD.

(132 Half Cut Cells Family and Max. system voltage 1500V) G2X505-HAB, G2X500-HAB, G2X495-HAB, G2X490-HAB, G2X485-HAB.

(120 Half Cut Cells Family and Max. system voltage 1500V) G2X460-HAA, G2X455-HAA, G2X450-HAA, G2X445-HAA, G2X440-HAA.

(108 Half Cut Cells Family and Max. system voltage 1500V) G2X415-HAY, G2X410-HAY, G2X405-HAY, G2X400-HAY, G2X390-HAY.

(96 Half Cut Cells Family and Max. system voltage 1500V) G2X365-HAX, G2X360-HAX, G2X355-HAX, G2X350-HAX.



Maxop Research & Testing Institute Pvt. Ltd. ULR-TC87742300000032F TERI Gram, Gwal Pahari Gurgaon-Faridabad Road, Gurgaon-122003

GAUTAM

SOLAR

1. SCOPE:

a.	Requested by (Name & Address of the Organization)	M/s Gautam Solar Private Limited Plot No: 67-70, Sec-8A, SIDCUL, IIE Ranipur,					
		Haridwar, UTTARAKHAND -249403					
	Details of the Test Item						
	i. Nomenclature	Solar PV Modules					
b.	ii. Manufactured By	M/s Gautam Solar Private Limited Plot No: 67-70, Sec-8A, SIDCUL, IIE Ranipur, Haridwar, UTTARAKHAND -249403					
	iii. Model No.	G2X550-HAD					
	iv. Type	Mono Crystalline Silicon Modules 550Wp					
	v. Serial No.(s)	Refer the Test Results at Table given at Section no. 15 of Page no. 9					
c.	Date of Receipt of Samples	05.01.2023					
d.	Condition of the Sample on Receipt	Good					
e.	Applicable Standard	IS 16170 (Part 1):2014 IEC 61853-1:2011					
f.	Test Category	Part 1: Irradiance and Temperature Performance Measurements and Power Rating					
g.	Test Start Date	16.01.2023					
h.	Test End Date	26.01.2023					
i.	Number of Samples	03 Test Sample					
j.	Number of Photos	06 Photos					



Power Rating Test



Gautam Solar Patents & IPs





With strong focus on R&D, Gautam Solar holds Multiple Patents and IPs related to solar panel technology

Gautam Solar Patents & IPs

GAUTAM SOLAR

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Gautam Solar's patent on solar module lowers installation costs

March 27, 2023 - Updated 08:58 pm IST

The company said that innovation in solar modules halves the number of fasteners used during the

installation of solar power plants



The cost of balance of systems, time for installation and commissioning plays a critical role and makes a big difference in the project cost

Homegrown manufacturer Gautam Solar on Monday said that it has filed a patent and design registration for innovation in solar panels that will cut down the installation cost of solar power plants at utility and rooftop scale.

"The innovation in solar modules halves the number of fasteners used during the installation of solar power plants. At Megawatt and Gigawatt scale, the cost of balance of systems, time for installation and commissioning plays a critical role and efficiency makes a big difference in the project cost," the solar module maker said in a statement.

Patent design

The new solar panel design consists of two frames, a primary and a secondary frame with hollow structure (for light-weight design) which both have laterally extending brackets with grooves to provide an interlocking mechanism, the firm explained.

These frames are configured to secure the panel and the brackets are configured to mesh upon operation using fasteners. This leads to a reduction in the number of fasteners (nuts, bolts and washers) used during panel installation by 50 per cent. This not only saves time and is cost-effective, but also makes the installation process easier, it added.....

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Gautam Solar granted patent for innovation in **PV module production**

Gautam Solar claims its bussing tool reduces manual work by over 50% and doubles solar panel yield, at a fraction of the cost of an automatic machine. SEPTEMBER 19, 2023 UMA GUPTA



Gautam Mohanka, Managing Director, Gautam Solar

Indian manufacturer Gautam Solar has earned an intellectual property right for a "tool for the bussing process of solar panels," against the design submitted by the company's CEO, Gautam Mohanka.

The design registration was granted by The Office of the Controller General of Patents, Designs, and Trade Marks, affirming the tool's innovative and unique features.

Gautam Solar said its patented tool offers a host of advantages to module manufacturers, including over 50% reduction of manual work and a doubling of solar panel production capacity, at a fraction of the cost of an automatic machine. Additionally, the tool minimizes warpage, breakage, and thermal stress in solar cells, effectively increasing the panel's lifespan.

The tool minimizes human errors and significantly improves accuracy in the solar panel production process. Operating scamlessly within a temperature range of 300°C to 450°C, it provides precise control for soldering in harmony with solar panel assembly requirements. In addition, the tool features a unique junction configuration that ensures even thermal energy distribution, reducing stress on solar cells. A thermocouple probe allows for precise temperature control.



Customer: A Government Agency in Haryana (Indian State) **Project Size: 70 MW** Solar Panels used: 550 Wp & 450 Wp Bifacial Installed since: 2022 **Energy Generated: 5.6** kWh/kWp Location: 100+ Sites in Haryana **CO**₂ Savings: 71540 tonnes/71540000 kg annually

Community Solar Project for Haryana





Customer: An EPC company in Uttarakhand **Project Size: 10 MW (2 Phases** of 5 MW each) Solar Panels used: 550 Wp Bifacial **Installed since: 2022 (Phase-1)** & 2023 (Phase-2) **Energy Generated: 5.5** kWh/kWp Location: Hilly terrains of Uttarkashi in Uttarakhand where installation is difficult **CO**₂ Savings: <u>9860</u> tonnes/9860000 kg annually

Utility Scale Solar Project in Uttarkashi, Uttarakhand





Customer: An EPC Company in Madhya Pradesh **Project Size: 10 MW Cumulative Capacity** Solar Panels used: 550 Wp Bifacial Installed since: 2022 **Energy Generated: 5.7** kWh/kWp Location: Multiple 1 MW Solar Plants at Sagar, Tikamgarh and Panna in Madhya Pradesh under PM-KUSUM Scheme **CO**₂ Savings: 10220 tonnes/10220000 kg annually

Agri-photovoltaic Solar Plants in Madhya Pradesh





Customer: A Government Agency in West Bengal (Indian State) **Project Size: 11 MW** Solar Panels used: 550 Wp Bifacial Installed since: 2023 **Energy Generated: 5.6** kWh/kWp **Location:** Mejia Village in Bankura District of West Bengal **CO**₂ Savings: 11050 tonnes/11050000 kg annually

Utility Scale Project in Bankura, West Bengal





Customer: An EPC Company in Gujarat Project Size: 2.6 MW Solar Panels used: 545 Wp Monofacial **Installed since: 2024 Energy Generated: 5.6** kWh/kWp Location: Bodeli Town in Chhota Udaipur District of Gujarat **CO2** Savings: 2800 tonnes/2800000 kg annually

Solar Project for Chemical Company in Gujarat





Customer: An EPC Company in Ghana

Project Size: 136 kW Panels

supplied beating Chinese

competition

Solar Panels used: 545 Wp

Bifacial

Installed since: 2023

Energy Generated: 5.5

kWh/kWp

Location: Ghana

CO2 Savings: 145 tonnes/145000 kg annually

Supply of Solar Panels in Ghana



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Gautam Solar Cracks Notable Deal In Ghana

Updated on Mon, Mar 04th, 2024

Highlights :

In what it will hope will be the harbinger of many more such deals, Gautam Solar has delivered its latest modules to a client in Ghana.



India's solar module manufacturers have for long targeted the US and other developed markets for exports, considering the intense Chinese competition in other markets. In that context, an announcement by leading manufacturer Gautam Solar, of a successful export of cutting-edge solar modules to Chana deserves notice. Despite intense competition from Chinese manufacturers dominating the African market, Gautam Solar prevailed, says the firm.

The manufacturer, with 27+ years of experience in solar, delivered its high-efficiency 545 Wp Mono PERC Solar Modules in December 2023. These modules have a number of distinct features. Their bigger M10 cells allow them to generate more power. Their cutting-edge 10BB structure with round ribbon helps deliver minimum electrical losses and improves light capture. Additionally, their half-cut design using NDC ensures the modules remain free of micro-cracks and enables good performance, even in low-light. Glass to Backsheet Bifacial technology enhances the power generation by providing additional power from the rear side. Clearly making a compelling case for the Ghanian customer.

For Gautam Solar, the achievement underscores its ability to compete globally with customers who demand top class quality and matching prices. With 27+ years of solar industry experience. It has 4 factories in Haridwar, India and its corporate office in New Delhi, India. The company is in process of expanding its solar module capacity to 2 GWp this calendar year and to 5 GWp in FY2025-26.



Customer: An EPC Company in Madhya Pradesh Solar Panels used: 550 Wp Bifacial Installed since: 2023 **Energy Generated: 5.7** kWh/kWp **Location:** Parking Area and Staff Residence of International Airport in Bhopal, Madhya Pradesh **CO2** Savings: 106 tonnes/106000 kg annually

Supply of Solar Panels for Raja Bhoj Airport, Bhopal



Gautam Solar Pvt. Ltd.

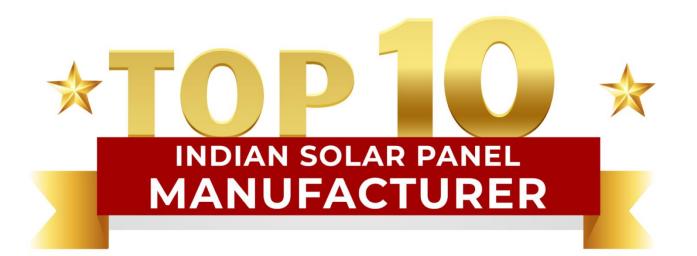
GAUTAM SOLAR

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Listed as Top 10 Indian Solar Panel Manufacturer (in terms of modules shipped) by **Reputed Industry Publications**

JMK Research & Analytics	"Annual India Solar Report Card CY2023", March 2024
Bridge to India	"India PV Module Intelligence Brief Q4 2023", February 2024
JMK Research & Analytics	"RE Update Q4 2023", February 2024
JMK Research & Analytics	"RE Update Q2 2023", August 2023
JMK Research & Analytics	"India Solar Annual Report Card CY2022", March 2023

India's Top 10 Solar Module Manufacturer



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Gautam Solar ranked among Top 10 Solar Module Manufacturers in India

The list placing Gautam Solar in the top ten solar module manufacturers is based on total module shipments in Calendar Year 2022.

MAY 09, 2023 GAUTAM SOLAR

Gautam Solar has been ranked amongst the Top Ten Indian Solar Module Manufacturers by an independent reputed renewable energy-focused consulting firm.

The list placing Gautam Solar in the top ten solar module manufacturers is based on total module shipments in Calendar Year 2022. During the period, Gautam Solar accounted for a staggering 1.5 percent of total module shipments. According to a report by JMK Research and Analytics, titled "India Solar Annual Report Card CY2022", published in March 2023, the overall market size for module shipment in Calendar Year 2022 was 15013 MW.

"Gautam Solar has been steadfast in helping India achieve its renewable energy target of 500 GW. To achieve this ambitious target, the role of indigenous solar panel manufacturing is of paramount importance. Gautam Solar has been a vocal advocate for the need to accomplish India's Net Zero emissions target by 2070 set by the government to bring stability to the ecosystem. Gautam Solar has been manufacturing High-efficiency Solar Panels using automated setup and we are planning to expand our manufacturing capacity to meet the nation's growing energy demand. As the company is based on its strong R&D unit, the company has been constantly innovating to produce high efficiency solar panels using novel equipment and processes. We have filed patents for Solar Panels with innovative frame design to help reduce installation costs. Apart from this, we have designed and applied for patent, an original tool for bussing process of solar panels to reduce manufacturing costs and time," noted Gautam Mohanka, Managing Director of Gautam Solar Private Limited.

Presently Gautam Solar has an overall production capacity of 500 MW, and the company is steadily expanding its manufacturing capacity to reach 1 Gigawatts in next 6 months.

Gautam Solar's solar modules are manufactured in 4 state-of-the-art manufacturing facilities with first-hand topline machines – all of them in Haridwar, Uttarakhand. "Gautam Solar's modules have been designed to provide high efficiency in power generation to Utility Scale, Commercial & Industrial (C&I) and Residential Sectors, both in Ground-mounted and Rooftop installations. Gautam Solar is now among one of the few Indian Companies manufacturing high-wattage Mono PERC Solar

27+ Years in Solar Industry





Prime Minister of India Shri Narendra Modi requests the pleasure of the company of Mr. Gautam Mohanka

Established in 1997 under the visionary leadership of
 Mr. B.K. Mohanka

More than 27 years solar industry experience.

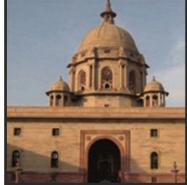
Consistently profitable year-over-year.

>Offering quality solar modules with robust warranty support, backed by 25+ years industry longevity (typical solar PV power plant lifetime).









Strong Top Management



Educationally Well-Qualified with Long Term Vision

Mr. B.K. Mohanka (CMD)	Mr. Gautam Mohanka (CEO)	Mr. Sharad Mohanka (COO)			
45+ Yrs. Of Business Experience	20+ Yrs. Of Solar Industry Experience	12+ Yrs. Of Solar Industry Experience			
• B. Tech from NIT Patna , Batch of 1972	 Eco (Hons.) from Shri Ram College of Commerce (SRCC), Batch of 2000 	 M.Tech from North Carolina State University (Raleigh, USA), Batch of 2008 			
• Ex. Professor in Engineering College	• MBA from MDI Gurgaon , Batch of 2002	• BE from Mumbai University			
 Visionary to start Solar Business in 1998 	 Holds IPs for several Technical Innovations in Solar Industry 	 Responsible for managing Capacity Expansion and Manufacturing Operations 			

Financially Strong



100% Equity with promoters



Gautam Solar is privately held, with 100% equity with its promoters to ensure a long term outlook for the company as it allows the company to adapt to the changing market conditions with quicker and more decisive action and allow a long-term planning and execution of strategic initiatives.



Profitable in Solar since last 25

Gautam Solar has been consistently profitable in the solar industry since the last 25 years, unlike a number of solar energy startups which have come into existence in just the past few years and are yet to reach profitability.



Bankable Company for Solar Modules

Gautam Solar is a bankable company for businesses looking to procure solar modules, as evidenced by the company's strong balance sheet. Additionally, the company has a provision for a warranty fund and cash to withstand warranty claims.

In Solar since 1998

years



Gautam Solar provides a 10-year product warranty and a 25-year performance warranty, backed by over 25 years of industry experience. It matches the typical lifetime of a Solar Plant in contrast to some less experienced companies, sourcing modules from China, which have faced bankruptcy or warranty issues.

Capacity Expansion – 5 GW by 2025-26



Gautam Solar has **4 factories** with Total Module Manufacturing capacity of **1 GW.** Capacity expansion in

process:

Upcoming factory in Bhiwani, Haryana on 50 acres land

2 GW total capacity by end of 2024

➤5 GW capacity targeted by FY25-26

businessine.

Gautam Solar targets 5 GW capacity at Bhiwani unit

Gautam Solar to launch 50-acre Bhiwani factory with 1 GW capacity and expand later



Gautam Solar, which is doubling its solar module manufacturing capacity to 2 gigawatt (GW), targets 5 GW capacity at its upcoming factory in Bhiwani (Haryana).

The homegrown solar modules manufacturer has four plants in Haridwar (Uttarakhand) with a cumulative capacity of 1 GW. It recently acquired 50 acres in Bhiwani for its upcoming manufacturing unit, which will have 1 GW capacity to begin with.

On the company's expansion plans, Gautam Solar Managing Director Gautam Mohanka told businessline, "This expansion took more time as we had to finalise the land... for doubling our manufacturing capacity and add more capacities in the future."

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Gautam Solar High-power Modules Enhance Power Generation From 5 MW Plant In Uttarkashi

By Ashwini Chikkodi -14th December 2022



Gautam Solar high-power modules enhance power generation from 5 MW plant in Uttarkashi

The 5 MW solar power plant in Uttarkashi of Uttarakhand is one of the highest power generating power plants in the region

A 5 MW plant in Uttarkashi in Uttarakhand witnessed a significant boost in the company's electricity generation with the help of solar photovoltaic (PV) modules supplied by one of the fastest-growing solar manufacturers in the country Gautam Solar Private Limited. Gautam Solar supplied the PV modules to Engineering, procurement and construction (EPC) firm Solid Solar Private Limited for the setting up of the solar PV power plant at Uttarkashi.

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RECENT HIT

This homegrown firm is fuelling India's dream to beat China as a mega solar module manufacturer



Image countery of Cautam Splan

Synops

The Centre has been taking several steps to grow domestic manufacturing of solar modules and challenge China's supremacy in the supply chain. Delhi-based Gautam Solar, which has been exporting solar panels to various countries including the US and Europe, is emerging as a key player amid rising competition after the entry of Relators and Adami.

> It's difficult to miss them nowadays. You find those blue and black rectangle shaped panels mounted on the rooftops of most hospitals and hotels, and at times tucked in individual houses as well as on the roadside. Indeed, solar



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Gautam Solar releases 550 W bifacial solar module with 21.27% efficiency

Gautam Solar's 10-busbar solar panels feature peak power outputs ranging from 520 W to 550 W, with front-side conversion efficiencies ranging from 20.11% to 21.27%.



India's Gautam Solar has unveiled its new G2X bifacial module line. The new products are available in peak power outputs ranging from 520 W to 550 W, with with front side conversion efficiencies between 20.11% and 21.27% under standard temperature conditions.

The open-circuit voltage is 48.83-49.48 V, and the short-circuit current is 13.55 A to 13.92 A. The rear side reportedly offers a 10% to 30% additional gain in power generation.

The modules also feature an IP68-rated split junction box with an individual bypass diode and an anodized aluminum alloy frame. The module can be used with operating temperatures of between -40 C and 85 C. Its operating temperature coefficient is -0.30% per degree Celsius.

Gautam Solar G2X series 10BB bifacial module Image: Gautam Solar

The modules are included in India's Approved List of Models and Manufacturers (ALMM). The list includes eligible models and manufacturers of solar modules that comply with the Bureau of Indian Standards.

The modules feature 144 monocrystalline half-cells and 10 busbars. They measure 2,280 mm x 1,134 mm x 35 mm and weigh 27.1 kg.

Gautam Solar currently has a module manufacturing capacity of 400 MW, but plans to expand that to 1 GW.

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Gautam Solar supplies 60 MW solar panels for PM-KUSUM scheme

The solar panels will be delivered under Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) scheme, a company statement said.

19 Feb 2024, 03:07:00 PM IST



Gautam Solar on Thursday said it has delivered 60 megawatt (MW) of solar panels for <u>PM-KUSUM- scheme</u>. It has supplied 10BB mono passivation emitter rear contact cell (PERC) solar panels, which are more efficient in minimizing electrical losses and enable power generation from both sides, the company said in a statement.

The solar panels will be delivered under Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) scheme, it added.

The company did not disclose any further details with respect to the delivery of panels.

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Gautam Solar sells 100 MW modules under domestic content requirement

July 14, 2022 - Updated 11:13 am IST

The Delhi-based solar module manufacturer has four factories in Haridwar



Gautam Solar said on Wednesday that it has sold 100 megawatts (MW) solar modules under the domestic content requirement (DCR) category, which are majorly used by solar EPC and system integrators.

"Gautam Solar has 250 MWp (megawatt peak) solar module manufacturing expanding to 1 gigawatt (GW) production and provides a wide range of indigenously manufactured solar modules all over the country," it said in a statement.

Gautam Solar Managing Director, Gautam Mohanka said, India needs solutions that are designed as per government policies, and geographical, economic, and social conditions. Gautam Solar provides 100 per cent genuine DCR solar modules without any mix of Chinese solar cells and with a full wattage guarantee, he said.

Promoting domestic solar manufacturers

The government has earlier mandated the use of DCR solar modules to promote and encourage domestic solar manufacturers. All solar modules manufactured by Gautam Solar are indigenous and are under BIS and the Approved List of Models and Manufacturers (ALMM) — approved by the Ministry of Renewable and New Energy (MNRE), he added.



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Gautam Solar panels now available to US market

By Kelly Pickerel | November 17, 2022

Indian solar panel manufacturer Gautam Solar is introducing its G2X series of panels to the U.S. market. The mono- and bifacial modules use M10 cells and are rated at 450- to 545-Wp.

"Gautam Solar has established strong trust in the Indian market for being committed toward innovating and manufacturing the best-in-the-market solar modules.

The new high-performance modules will further boost the transition towards replacing fossil fuel as a source of power with cleaner sources of energy. The modules will be ideal for both rooftop and ground-mounted solar power projects, both in India and the USA," said Gautam Mohanka, director of Gautam Solar Private Limited.



These modules are manufactured at the company's facility in Haridwar of Uttrakhand, which recently boosted its annual production capacity to 400 MW with the company eyeing to further expand to 1 GW in the near future.



Videos

SOLARQUARTER

Gautam Solar Catapults Green India Vision; Supplies 70 MW Of High-efficiency Solar Panels

By Ashwini Chikkodi -13th March 2023

Thursday, December 15, 2022 Sign in / Join



Gautam Solar brings major push to green Indi

In its pursuit to revamp the country's energy landscape, one of the leading players in solar manufacturing, Gautam Solar, has supplied 70 MW of high-efficiency solar panels for government projects in North India. The state-of-the-art panels were supplied for Solar PV Systems over a period of four months in the states of Haryana, Madhya Pradesh, Rajasthan and Uttar Pradesh. The high-efficiency solar panels are indigenous "Made in India" DCR Modules which are ALMM (MNRE, Gol) and BIS Approved.

Some of the distinctive features of Gautam Solar's 545 Wp 10BB Mono Solar Modules include bigger M10 cells for higher power generation, multi-busbar technology for lower electrical losses, round ribbon connectors for better light utilization, bifacial PERC technology for power generation from both sides, non-destructive laser-based cell cutting for higher reliability and lower chances of micro-cracks and half- cut cell technology for better low-light performance.

"The key relevance of solar power in India is driven by the increasing demand for energy and the country's commitment to reducing carbon emissions and reaching Net Zero by 2070. Our solar panels will save between 120 million to 175 million pounds of CO 2, i.e. 54569 metric tons to 79372 metric tons annually. Solar power is a clean and renewable source of energy that can help meet the country's energy needs while reducing its dependence on fossil fuels. India's aim is of increasing renewable energy capacity to 500 GW by 2030, so that renewable energy comprises of 50% of the energy mix," noted Gautam Mohanka, Managing Director of Gautam Solar Private Limited.

"Gautam Solar has played a key role in the solar industry, and its contribution to the growth of solar power in India has been immense. We have earned a reputation for producing a wide range of high-quality solar modules that is well-suited for all types of solar power plants in India," mentioned **Mr Mohanka**. Home Latest News Markets Premium Money Mutual Fund Industry Companies Technology Opinion Web Stories

power Bhopal Airport

Updated: 24 Apr 2023, 01:39 PM IST

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New Delhi: Gautam Solar on Monday said that it has successfully supplied 10BB mono half-cut solar panels for a solar power plant at Raja Bhoj International Airport (Bhopal Airport) in the state of Madhya Pradesh.

"The supply of these solar panels is a significant step towards promoting the use of clean energy and reducing the carbon footprint of the airport," the company said in a press release.

The project was completed within the designated timeline, showcasing Gautam Solar's commitment to timely delivery of high-quality solar products.

"The panels supplied are capable of producing approximately 1,50,000 units of electricity per year, leading to a reduction of 106 metric tons of carbon dioxide emissions annually," it added.

"We are proud to have supplied our high-quality 545 Wp 10BB Mono Half-Cut solar panels to Bhopal Airport for this project," said Gautam Mohanka, CEO and Managing Director of Gautam Solar.

"We are committed to providing sustainable energy solutions that are efficient and cost-effective, and we look forward to working with more organizations to help them transition to renewable energy," he added.





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