ADM ORIENT

ADM ORIENT SOLAR

Govt. of India MNRE APPROVED CHANNEL PARTNER

CERTIFIED ISO 9001:2015 COMPANY

ADM SOLAR POWER

Who We Are

ADM Orient is a group company of the TPH Orient group of companies **ADM Orient is owned and managed by top industry professionals with immense experience in mechanical and electrical engineering, bringing over 70 years of experience in the same.**

ADM Orient was founded on the principles of bringing the power of renewable energy to the average population at an affordable price through a strong belief in **local manufacturing** and expertise. With this goal in mind, ADM Orient boasts one of the largest fully automated panel manufacturing capacities and is one of the leading panel suppliers in the country. This includes M-10 , M-6 and the most cutting edge panels available in the market today.

our core principles rooted in innovation have also led to the creation of a host of smart city products for the average population and our societies everyday infrastructure. These products include inverters , batteries, solar benches , solar street lights, solar water pumps etc. ADM also acts as a principle and lead EPC solution provider for ensuring the completion of each Solar Plant from concept life of a Solar Power Plant. These products use solar energy to create a more sustainable and future ready society and are necessities in todays world to ensure a sustainable future for us as a populous.

What We Have

ADM Orient Renewables has a 600MW solar panel manufacturing plant in Delhi NCR which is currently expanding to 1.2 GW. This is a fully automated plant capable of producing the highest efficiency modules available anywhere in the world.

We have adopted best-in-class technology platforms and have collaborated with leading technology providers. We manufacture module sizes starting from 2.5 Wp to 700 Wp. These modules are used for various on-grid and off-grid applications. We have a sole aim to procure the best quality raw material, to produce the most immaculate PV panels available . We have a vendor-agnostic approach, which allows us to recommend the best solution for all. Our broad-reaching procurement process guarantees you the best technology and our manufacturing infrastructure ensures the best quality. We also have in-house inverter and battery manufacturing capacity.

Why Choose Us

We are an IEC UL Certified Company. We are also impaneled with the Ministry of New & Renewable Energy (MNRE) for all segments including Solar Rooftop, Solar farming & other applications. We are also a BIS & ISO Certified Company, and are doing complete EPC Solutions for our patrons.

Our Infrastructure is one of the most technically advanced setups achieving global standards. Our team and years of technical expertise along with state of the art infrastructure and distinguished clientele allows us to be leaders in our segment and an ideal solar energy partner for our customers.

SOLAR PANELS

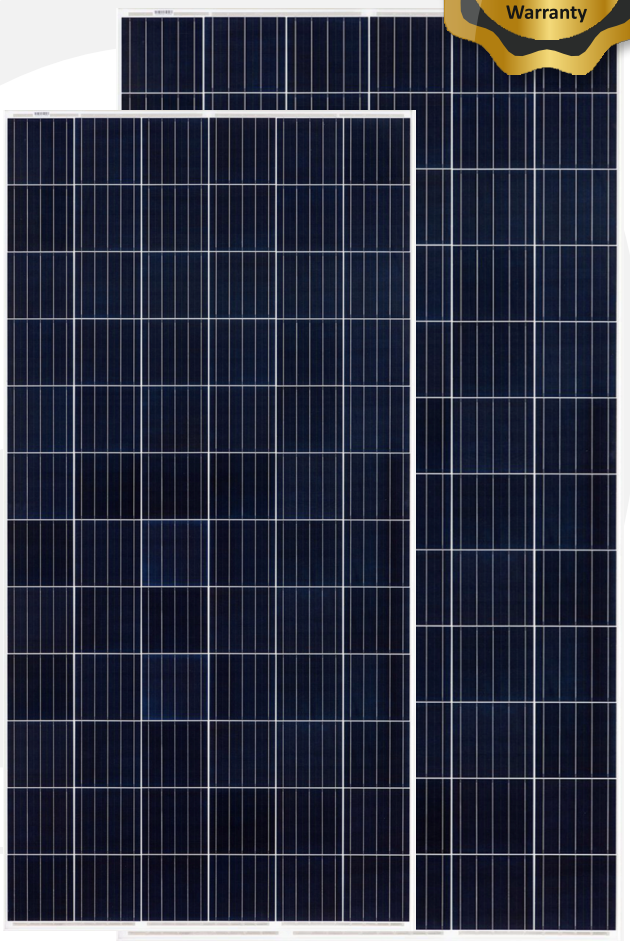
BEST QUALITY 100%GUARANTEED

25* Years Warranty

Polycrystalline Solar Panels

This type of solar panel has squares, its angles are not cut, and it has a blue, speckled look. They are made by melting raw silicon, which is faster and cheaper

process than that used for monocrystalline panels.



Monocrystalline Solar Panels

This type of solar panel is the purest one. You can easily recognize them from the uniform dark look and the rounded edges. The silicon's high purity causes this type of solar panel to have one of the highest efficiency rates.

Features

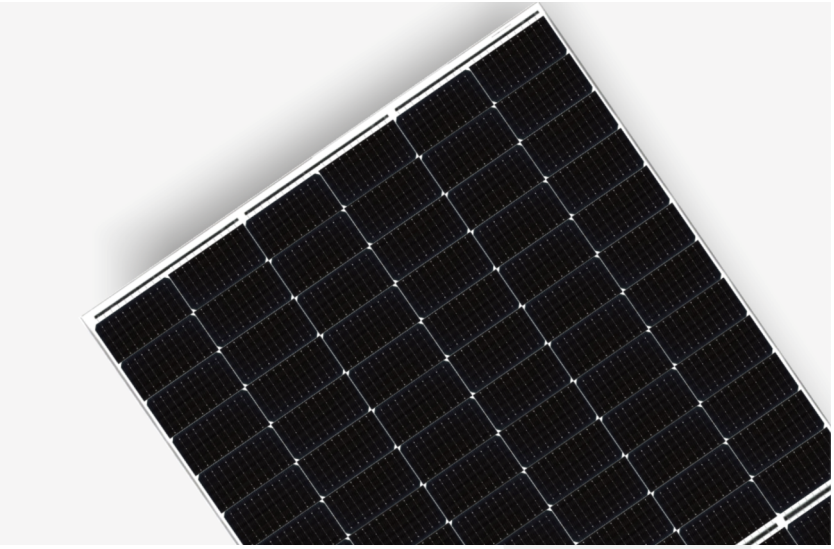
- Best in class conversion efficiency
- Anti reflective coating and back surface field
- Optically, mechanically and electrically tested
- Advance EVA encapsulation
- Strong light weight Aluminum frame design
- Compliance to IEC standards

R- 93011576

ORIENT X-PRESS

ADM Orient X-Press

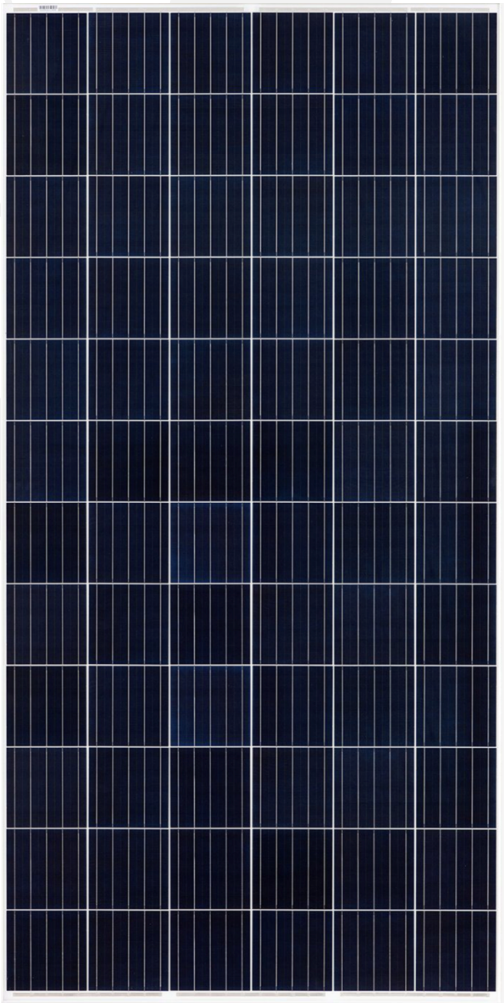
The ADM Orient X-Cel range is our 10 BB mono perc module. This product is our 540 W module. ADM Orient prides itself on being a renowned supplier of modules which are rigorously tested in accordance to global testing standards.



ADM Orient at its core is a quality conscious and trusted manufacturer. All our products pass rigorous testing and uphold global standards.

Product Features

- High Power Generation
- High Efficiency
- 100% Pre and Post EL Inspection
- Undeniable Reliability
- Lower LID / LETID
- Efficient Temperature Coefficient
- Reduced Degradation
- Enhanced Low Light Performance
- Extraordinary PID Resistance



ADM SOLOR POWER AND INFRASTRUCTURE PVT. LTD.

X-PRESS SERIES

MONO PERC HALF CUT SOLAR PV MODULE 540-555 W

Best in Class Efficiency 21.50%

MBB Technology M10 Half Cut Cells

Non-Destructive Cell Cutting (NDC)

FEATURES

- Low LID Degradation using PERC Technology - **Enhanced Power Generation During its Life Cycle**
- Improved Temperature Coefficients - **Better Generation at Higher Temperature**
- Reduced Resistive Loss with MBB Technology - **Excellent Module Performance**
- Half Cut Cell Design - **Excellent Performance Under Partial Shading Conditions**
- Lower LCOE (Levelized Cost of Electricity) - **Faster Return on Investment (ROI)**
- Manufactured in **Fully Automatic Production Line**
- **100% in line Hi-Pot testing, 100% EL Testing** at 3 stages – Stringer, In process and Final Testing
- Manufactured using certified **Tier 1 BOM Meeting Highest Quality Standards**
- Certified for **Pollution Degree II, Salt Mist Resistant (Severity 6), Ammonia & PID Resistant**
- Better reliability under **Extreme Environmental Conditions**

30 Years Performance Warranty[1]

Power Tolerance up to 4.99W

PID Resistant

12 Years Product Warranty[1]

*All certifications under test

MONO PERC HALF CUT MODULE 144 CUT CELLS

540-555W

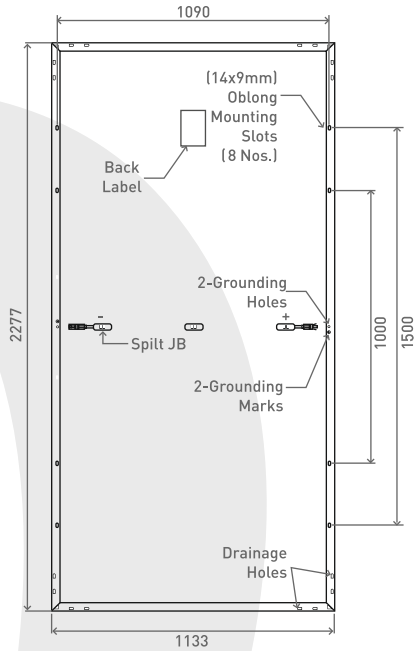
ELECTRICAL DATA - STC* & NOCT**

Model	Unit	ADM-540		ADM-545		ADM-550		ADM-555	
Parameters		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Capacity Rating Wp	Pmax	540	399	545	403	550	407	555	410
Max. Power Voltage in V	Vpm	41.64	39.35	41.80	39.50	41.93	39.62	42.05	39.74
Max. Power Current in A	Ipm	12.97	10.15	13.04	10.20	13.12	10.26	13.20	10.33
Open Circuit Voltage in V	Voc	49.60	46.59	49.75	46.74	49.90	46.88	50.00	46.97
Short Circuit Current in A	Isc	13.86	10.87	13.92	10.92	13.98	10.97	14.05	11.02
Module Efficiency	%	20.92		21.12		21.31		21.50	
Power Tolerance	Wp	-0/+4.99							

*STC: Irradiance 1000 W/m^2, cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m^2 according to EN 60904-1. Measurement uncertainty ±3%

**NOCT irradiance 800 W/m^2, ambient temperature 20°C, wind speed 1 m/sec.

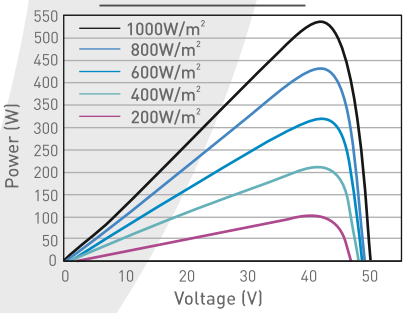
Dimension of PV Module
Unit: mm



MECHANICAL DATA

Dimensions (L x W x H)	2277 mm x 1133 mm x 40mm
Weight	30 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm², 400 mm (Higher cable option available on request)
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (144 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

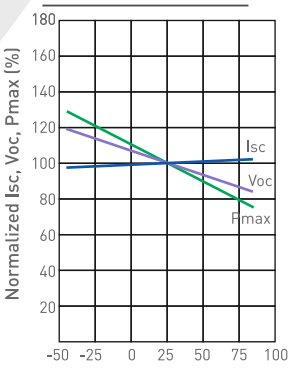
Power-Voltage Curve



TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

Cell Temperature (°C)



PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

WARRANTY AND CERTIFICATIONS

Product Warranty	10 years Product Warranty
Performance Guarantee	25 year Linear Performance Warranty

PACKAGING CONFIGURATION

Modules per Pallet	30

FOR ENQUIRY
+91 95408 53535

ADM Solar Power and Infrastructure Pvt. Ltd.
Corporate Office: 22/1 The Printer House Pvt. Ltd., Mathura Road, Ballabgarh,
Sikri Industrial Area, Faridabad, Haryana- 121004. India.
Email: marketing@admsolarpower.com

ORIENT XLP

ADM Orient XLP

The ADM Orient X-Cel range is a part of our 5 BB mono module range. This product is our 410 W module. ADM Orient prides itself on being a renowned supplier of modules which are rigorously tested in accordance to global testing standards.

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Product Features

- High Power Generation
- High Efficiency
- 100% Pre and Post EL Inspection
- Undeniable Reliability
- Lower LID / LETID
- Efficient Temperature Coefficient
- Reduced Degradation
- Enhanced Low Light Performance
- Extraordinary PID Resistance

ADM SOLOR POWER AND INFRASTRUCTURE PVT. LTD.

XLP SERIES

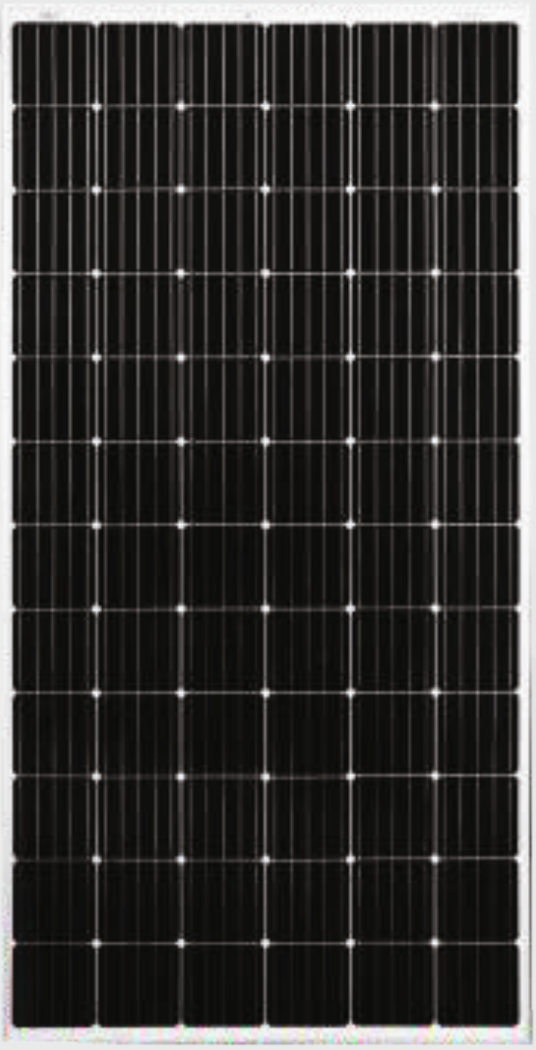
5BB MONO PERC/MONO CRYSTALLINE SOLAR PV MODULES

Best in Class Efficiency upto 20.10%

5BB Mono Cells

FEATURES

- Enhanced Power Generation During its Life Cycle
- Improved Temperature Coefficients - **Better Generation at Higher Temperature**
- **Excellent Module Performance**
- Lower LCOE (Levelized Cost of Electricity) - **Faster Return on Investment (ROI)**
- Manufactured in **Fully Automatic Production Line**
- **100% in line Hi-Pot testing, 100% EL Testing** at 2 stages in process and Final Testing
- Manufactured using certified **Tier 1 BOM Meeting Highest Quality Standards**
- Certified for **Pollution Degree II, Salt Mist Resistant (Severity 6), Ammonia & PID Resistant**
- Better reliability under **Extreme Environmental Conditions**



25 Years Performance Warranty[1]

10 Years Product Warranty[1]

PID Resistant

5BB MONO PERC/MONO CRYSTALLINE SOLAR PV MODULES

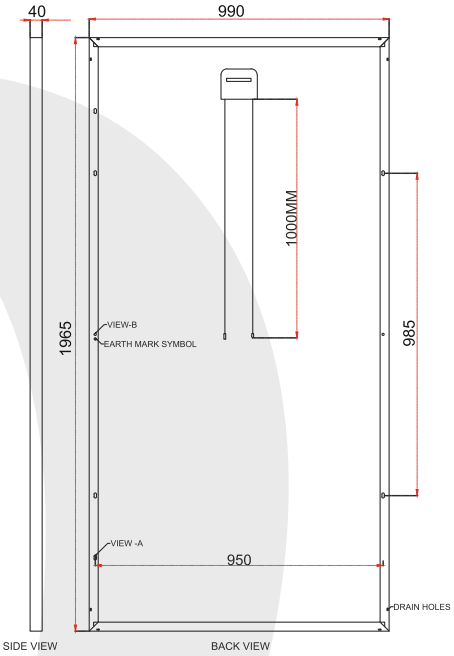
360-410W

ELECTRICAL DATA - STC* & NOCT**

S. NO.	MODEL	ADM-360W	ADM-370W	ADM-380W	ADM-410W
1	Peak power, (0~ + 4.99 Wp) Pmax (Wp)	360	370	380	410
2	Maximum voltage, Vmpp (V)	38.30	38.40	38.60	39.74
3	Maximum current, Impp (A)	9.41	9. 3	9.85	10.33
4	Open Circuit Voltage, Voc (V)	47.70	48.00	48.30	46.97
5	Short circuit current, Isc (A)	9.78	9.90	10.05	11.02
6	Module efficiency (%)	19.04	19.57	20.10	21.00

*STC: Irradiance 1000 W/m², cell temperature 25°C, air mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 5 % at 200 W/m² according to EN 60904-1. Output Power - 0/+5W

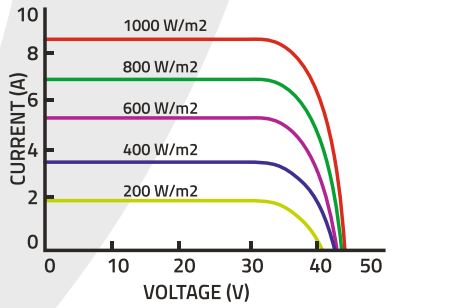
Dimension of PV Module
Unit: mm



MECHANICAL DATA

Length x Width x Height	1965 x 990 x 40 mm
Weight	21.5 kg ± 0.500 kg
Junction Box	IP67 / IP68 3 Bypass diodes
Cable & Connectors	1000mm length cables & MC4 Connectors
Appllication Class	Class A (Safety Class II)
Superstrate	High transmittance ARC Glass
Cells	72 Mono PERC / Monocrystalline, 5BB Solar Cells
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 pa-front ; 2400 pa-back
Maximum Series Fuse Rating	25 A

I-V Curve Variation With Irradiance



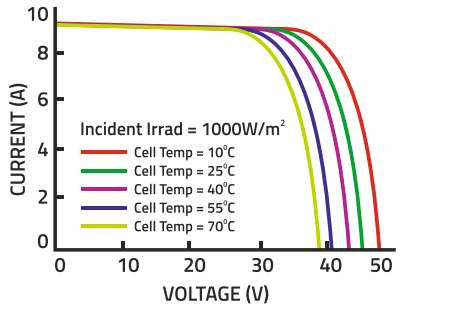
TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

I-V Curve Variation With Irradiance



WARRANTY AND CERTIFICATIONS

Product Warranty	10 years Product Warranty
Performance Guarantee	25 year Linear Performance Warranty

PACKAGING CONFIGURATION

Qty.: 25 in 1 Pallet

Qty.: 02 in 1 Box

FOR ENQUIRY
+91 95408 53535

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Sikri Industrial Area, Faridabad, Haryana- 121004. India.
Email: marketing@admsolarpower.com

ORIENT X-CEL

ADM Orient X-Cel

The ADM Orient X-Cel range is our poly module range. These include panels up to 335 W. ADM Orient prides itself on being a renowned supplier of modules which are rigorously tested in accordance to global testing standards.

ADM Orient at its core is a quality conscious and trusted manufacturer. All our products pass rigorous testing and uphold global standards.

Product Features

- High Power Generation
- High Efficiency
- 100% Pre and Post EL Inspection
- Undeniable Reliability
- Lower LID / LETID
- Efficient Temperature Coefficient
- Reduced Degradation
- Enhanced Low Light Performance
- Extraordinary PID Resistance

ADM SOLOR POWER AND INFRASTRUCTURE PVT. LTD.

X-CELL SERIES

5BB POLY CRYSTALLINE SOLAR PV MODULES

Best in Class Efficiency upto 17.72%

5BB Poly Cells

FEATURES

- Enhanced Power Generation During its Life Cycle
- Improved Temperature Coefficients - **Better Generation at Higher Temperature**
- **Excellent Module Performance**
- Lower LCOE (Levelized Cost of Electricity) - **Faster Return on Investment (ROI)**
- Manufactured in **Fully Automatic Production Line**
- **100% in line Hi-Pot testing, 100% EL Testing** at 2 stages in process and Final Testing
- Manufactured using certified **Tier 1 BOM Meeting Highest Quality Standards**
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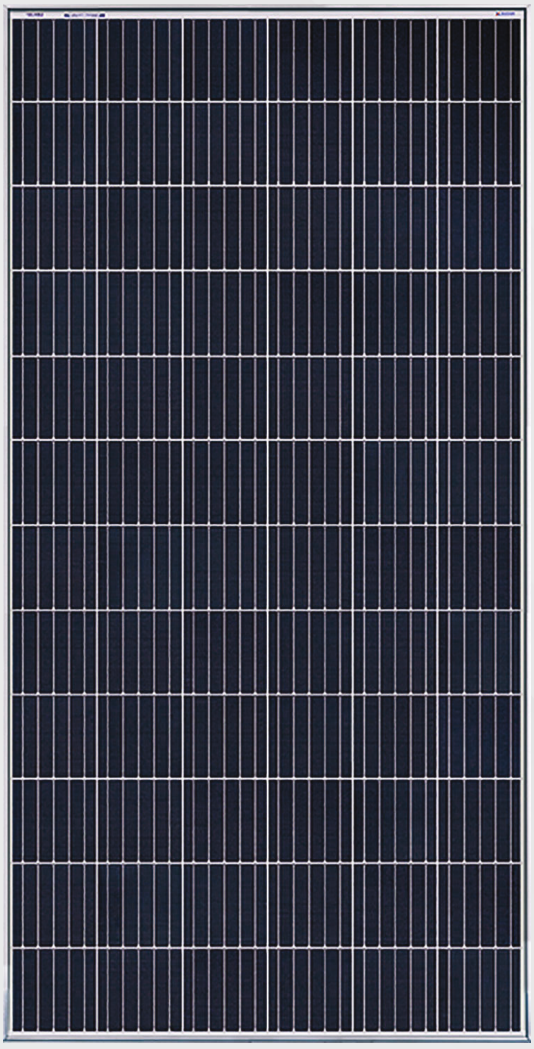


25 Years Performance Warranty[1]

10 Years Product Warranty[1]

PID Resistant

5BB POLY CRYSTALLINE SOLAR PV MODULES

300-335W

ELECTRICAL DATA - STC* & NOCT**

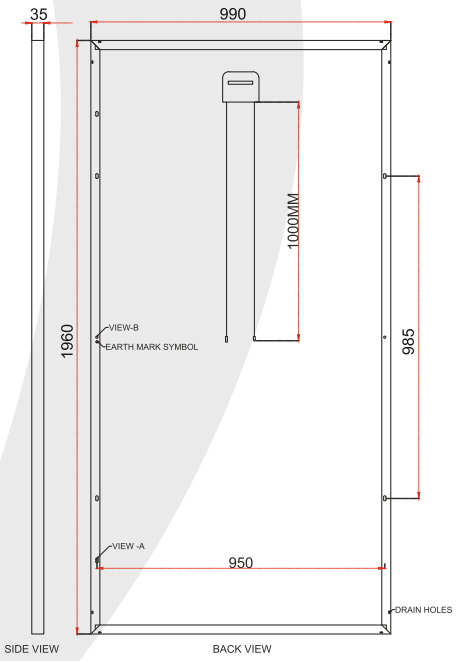
S. NO.	MODEL	ADM 300W	ADM 305W	ADM 310W	ADM 315W	ADM 320W	ADM 325W	ADM 330W	ADM 335W
1	Peak power, (0' + 4.99 Wp) Pmax (Wp)	300	305	310	315	320	325	330	335
2	Maximum voltage, Vmpp (V)	37.27	37.82	38.10	37.50	37.70	37.80	38.00	38.10
3	Maximum current, Impp (A)	8.05	8.08	8.14	8.40	8.50	8.60	8.70	8.80
4	Open Circuit Voltage, Voc (V)	45.10	45.45	45.72	45.80	46.00	46.20	46.30	46.50
5	Short circuit current, Isc (A)	8.74	8.79	8.81	8.92	9.03	9.13	9.24	9.35
6	Module efficiency (%)	15.87	16.13	16.40	16.66	16.93	17.19	17.46	17.72

*STC : Irradiance 1000 W/m^2, cell temperature 25^{0}C, air mass AM1.5 according to EN 60904-3,
Average efficiency reduction of 5% at 200 W/m^2 according to EN 60904-1.

MECHANICAL DATA

Length x Width x Height	1960 x 990 x 35 mm
Weight	21.5 kg ± 0.500 kg
Junction Box	IP67 / IP68 3 Bypass diodes
Cable & Connectors	1000mm length cables & MC4 Connectors
Appllication Class	Class A (Safety Class II)
Superstrate	High transmittance ARC Glass
Cells	72 Polycrystalline 5BB Solar Cells
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 pa-front ; 2400 pa-back
Maximum Series Fuse Rating	20 A

Dimension of PV Module
Unit: mm



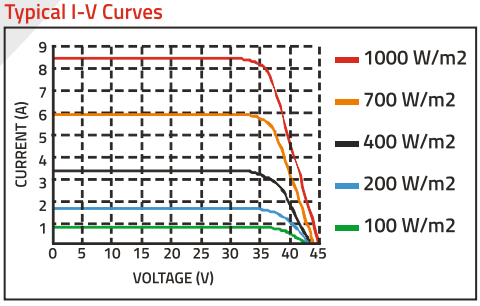
TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	20 A

Typical I-V Curves



WARRANTY AND CERTIFICATIONS

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TECHNICAL SPECIFICATION

Pmax (w)	10	20	30	40	50	60	75	80	100	120	165	195	200	265	300	335	395
ELECTRICAL PARAMETERS																	
Voc (V)	19.84	21.60	21.60	21.9	22.32	22.32	22.32	22.32	22.32	23.40	32.40	24.00	23.40	37.20	44.14	48.00	48.39
Isc (A)	0.62	1.10	1.80	2.20	2.95	3.60	4.43	4.43	5.90	6.89	8.95	10.16	11.25	8.95	8.45	8.91	9.85
Vpmx (V)	17.25	18.72	18.00	19.26	18.71	18.5	18.5	18.5	18.4	18.5	19.26	19.88	19.11	31.40	38.52	37.96	42.40
Ipmx (A)	0.58	1.08	1.70	2.09	2.70	3.25	4.10	4.10	5.40	6.5	8.4	9.82	10.47	8.45	8.25	8.89	9.32
Eff (+/-)	1.5	13.7	16.2	14.01	13.61	14.9	14.18	15.5	14.80	15.10	16.7	16.7	15.2	16.3	17.25	17.30	20.30
Diode Rating	6A	6A	6A	6A	6A	6A	6A	6A	10A	10A	15A	15A	20A	20A	20A	20A	20A
TEMPRATURE COEFFICIENTS																	
Tk Voltage	**-0.29% / °C**																
Tk Current	**0.048% / °C**																
Tk Power	**-0.39% / °C**																
NOCT	**45°C+2°C**																
Max System Voltage (V)	**600V**					**1000V**							**1500V**				
Temperature Range	**-40°C to +85°C**																
MECHANICAL PARAMETERS																	
Module Width-W (mm)																	
Module Height-H (mm)	265	345	665	665	665	665	665	665	665	665	665	665	990	990	990	990	990
Module Thickness-T (mm)	34.5	425	285	425	550	605	695	775	810	1125	1485	1485	1325	1640	1960	1960	1960
Cell in Series	17	17	17	30	30	30	30	30	30	30	30	30	35	35	35	35	35
Cell Size Tolerance +/-2%	36	36	36	36	36	36	36	36	36	36	36	36	72	60	72	72	72
Module Weight (Kgs)	-	-	-	1	1	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Mounting Hole Dimension (mm)	0.80	1.9	2.50	13.82	4.5	6.9	6.4	6.4	7.5	8.0	13.20	13.20	14.2	18.5	22.5	22.5	22.5
Mounting Hole (X-Axis) (mm)	-	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7
Mounting Hole (Y-Axis) Dist.) between two holes (mm)	-	-	630	630	630	630	630	630	630	630	630	630	940	940	940	940	940
Junction Box	-	-	150	250	275	320	390	390	500	500	750	750	960	980	980	980	980
WARRANTY																	
	25 YEARS																
Performance Warranty	Guranteed Power output 90% first 10 years and 80% for next 15 years																
PACKAGING DETAILS																	
Ply in Single																	
Ply in Master	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Nos of Module in Master	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	10	10	10	5	5	5	5	5	5	5	3	3	2	2	2	2	2

ORIENT X-AMP

ADM Orient X-AMP

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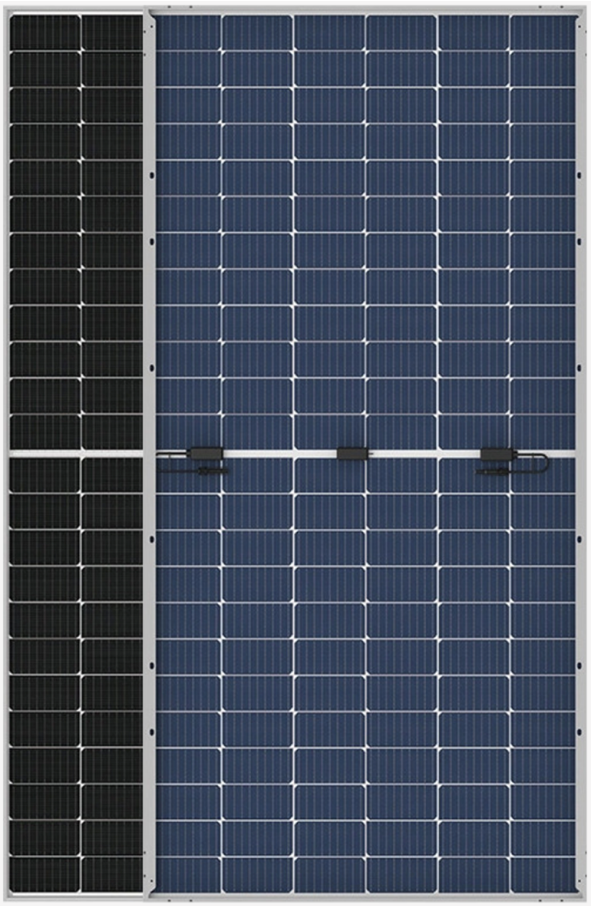

Product Features

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X-AMP SERIES

MONO PERC HALF CUT SOLAR PV MODULE 590 W

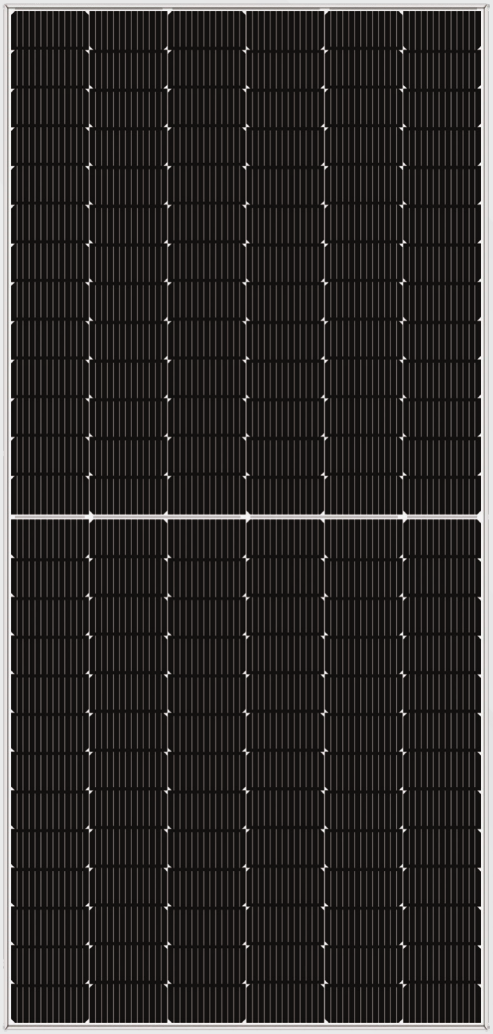
Best in Class Efficiency 21.50%

MBB Technology M10 Half Cut Cells

Non-Destructive Cell Cutting (NDC)

FEATURES

- Low LID Degradation using PERC Technology - **Enhanced Power Generation During its Life Cycle**
- Improved Temperature Coefficients - **Better Generation at Higher Temperature**
- Reduced Resistive Loss with MBB Technology - **Excellent Module Performance**
- Half Cut Cell Design - **Excellent Performance Under Partial Shading Conditions**
- Lower LCOE (Levelized Cost of Electricity) - **Faster Return on Investment (ROI)**
- Manufactured in **Fully Automatic Production Line**
- **100% in line Hi-Pot testing, 100% EL Testing** at 3 stages – Stringer, In process and Final Testing
- Manufactured using certified **Tier 1 BOM Meeting Highest Quality Standards**
- Certified for **Pollution Degree II, Salt Mist Resistant (Severity 6), Ammonia & PID Resistant**
- Better reliability under **Extreme Environmental Conditions**



25 Years Performance Warranty[1]

Power Tolerance up to 4.99W

PID Resistant

10 Years Product Warranty[1]

*All certifications under test

MONO PERC HALF CUT MODULE 156 CUT CELLS

590 W

ELECTRICAL DATA - STC*

Model	Unit	ADM-590
Parameters		STC
Capacity Rating Wp	Pmax	590
Max. Power Voltage in V	Vpm	45.99
Max. Power Current in A	Ipm	12.85
Open Circuit Voltage in V	Voc	53.51
Short Circuit Current in A	Isc	13.47
Module Efficiency	%	21.5
Power Tolerance	Wp	-0/+4.99

*STC: Irradiance 1000 W/m^2, cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m^2 according to EN 60904-1. Measurement uncertainty ±3%

**NOCT irradiance 800 W/m^2, ambient temperature 20°C, wind speed 1 m/sec.

MECHANICAL DATA

Dimensions (L x W x H)	2460 mm x 1133 mm x 40mm
Weight	31 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm², 400 mm (Higher cable option available on request)
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (156 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

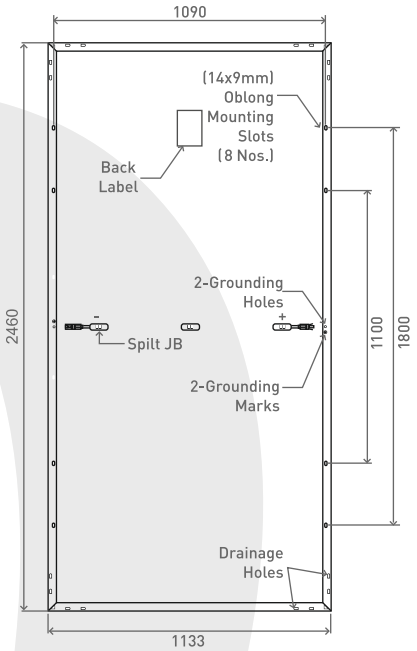
WARRANTY AND CERTIFICATIONS

Product Warranty	10 years Product Warranty
Performance Guarantee	25 year Linear Performance Warranty

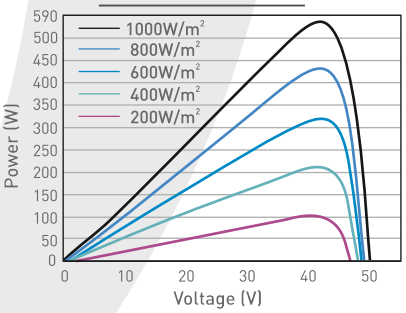
PACKAGING CONFIGURATION

Modules per Pallet	30

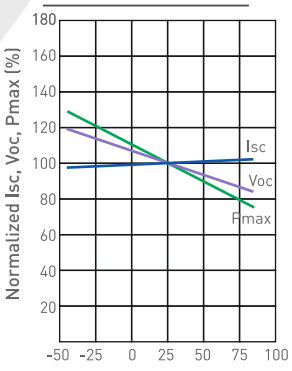
Dimension of PV Module
Unit: mm



Power-Voltage Curve



Cell Temperature (°C)



FOR ENQUIRY
+91 95408 53535

ADM Solar Power and Infrastructure Pvt. Ltd.
Corporate Office: 22/1 The Printer House Pvt. Ltd., Mathura Road, Ballabgarh, Sikri Industrial Area, Faridabad, Haryana- 121004. India.
Email: marketing@admsolarpower.com

EPC Services

EPC Services

ADM Orient is a trusted EPC service provider. With decades of engineering expertise along with a robust solar module infrastructure we are a prime partner for your solar plant engineering, procurement , and construction needs. From the concept stage to the entire plants lifespan including execution, running, and maintenance we will support you at every stage .

Our goal is to create a more renewable society and city infrastructure in a timely and cost effective manner

Engineering

Procurement

Construction

Types of EPC projects we cater to

Residential
Be it an apartment building, independent home, estate, or farm house ADM Orient is equipped to provide EPC services to all of the above.

Schools and colleges
The requirement for educational institutes to reduce energy costs and use renewable energy is crucial in the years to come.

Corporate
A number of corporate buildings and offices are in dire need for trusted and economically conscious EPC Providers. As such, ADM Orient hopes to fill that void.

Commercial / Industrial
Almost all factories, large or small are considering if they have not already done it, to use the benefits of solar energy to improve energy efficiency, reduce costs, and make use of renewable energy in its business. ADM Orient aims to help these industrial units achieve those goals.

Government
Various government projects require a dedicated and compliance friendly, knowledgeable team to execute their solar projects. ADM Orient as a certified module manufacturer and expert in this field, we are able fulfill all of the requirements of government projects

Independent power projects (IPP's)
Solar energy supply as an independent power producer is a crucial and fast growing business today. These providers require cost efficient and highly qualified EPC providers. Understanding such a need ADM Orient is a key supplier for various IPP projects.

https://admsolarpower.com/portfolio/epc/

Storage systems batteries and inverters

A lithium-ion (Li-ion) battery is an advanced battery technology that uses lithium ions as a key component of its electrochemistry. During a discharge cycle, lithium atoms in the anode are ionized and separated from their electrons. The lithium ions move from the anode and pass through the electrolyte until they reach the cathode, where they recombine with their electrons and electrically neutralize.

Lithium Ion batteries have a number of advantages to traditional batteries. lithium ion batteries have one of the highest energy densities of any battery technology today. This means that they can deliver large amounts of current for high-power applications. Li-ion batteries also have low self-discharge rate of around 1.5-2% per month. Li-ion batteries charge almost 4 times faster than their alternatives. Crucially Li-ion batteries are much easier to dispose of and so are better for the environment as compared to their competitors.

The future is now… join it with ADM Orient

ADM Orient tubular batteries : Artemis series

ADM Orient Tubular Batteries are manufactured with Heat Sealed Polypropylene Co-Polymer Monobloc casing material. Tubular positive plates are made of highly corrosion-resistant special lead alloy and Pasted Negative Plates with high discharge performance to ensure cycling capabilities and also reduce topping-up frequency. Individual cells are ?tted with Micro Porous aqua-trap ceramic vent plugs with sealed ?oat, which prevent acid mist from coming out from the cells to make it convenient for living room ambiance.

ADM Orient Tubular Plate Batteries are specially designed for inverter applications and are made with ultra-thick charged plates for long life & performance. They are user-friendly batteries with quick initial charging capability, very low internal resistance, and a steady voltage pro?le during short & long-duration discharges. The sealed ?oat and ceramic ?lter plugs help easy maintenance of electrolyte level and ensure no fume emissions. These batteries have great charge acceptance and retention properties even in arduous working conditions.

Features

- Quick charged
- Suitable for frequent power-cuts
- Tubular-designed positive plates provide long life Very low maintenance & long life
- Eco-friendly aqua trap vent plugs to ensure no acid fumes Electrolyte contains special additives to get quick recovery from deep discharge
- Excellent charge acceptance

ADM Orient solar inverter – Kian series

Most homes use alternating current (AC) energy, not DC, so the energy produced by your solar panels isn't useful on its own. When your solar panels collect sunlight and turn it into energy, it gets sent to the inverter, which takes the DC energy and turns it into AC energy.

Features

- Intelligent logic control
- Pure sine wave UPS with 85% Efficiency ISOT: Intelligent solar optimization technique Inbuilt charge controller with 98% efficiency Intelligent battery monitoring
- Battery charging commences at 110Volt AC&DC Output

ADM Orient solar inverter – Sunjoy series

Pulse Width Modulated inverters(PWM inverter) have a wide range of applications. Practically these are used in power electronics circuits. The inverters based on the PWM technology and possess MOSFETs in the switching stage of the output.

Features

- DSP-based; fewer components, small size less electricity bill more efficiency. Soft Start features; protects appliances at startup.
- Last Fault Display and record: the system records the last fault and you can analyze it. The adaptive loss reduction process gives a more efficient charging system.
- 5-stage battery charge control system for lower gassing and faster Charging
- In-built SBM (Smart Battery Management) system to provide a higher degree of battery production & life
- Battery usage data is recorded for better evaluation of the battery. Supply the highest quality pure sine wave power; protects your expensive

ADM Orient solar inverter – Dhriti series

An efficient maximum power point tracking (MPPT) method plays an important role to improve the efficiency of a photovoltaic (PV) generation system. MPPT systems are the most advanced solar inverter system available today and the most efficient.

Features

- Big Data Big Display
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes. RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines Safety and Protections
- IGBT-based design and Fast Charging Wide range MPPT Input6 Stage Battery Charging
- Multiple Battery Selection Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

ADM Solar Power & Infrastructure Pvt. Ltd.

Office: 10 Scindia House Connaught place 110001, New delhi , India

Factory campus: 22/1 Mathura road Ballabhgarh Faridabad 121004 , India.

Video: https://www.youtube.com/watch?v=aL8MktpUpps&t=155s

E-mail: info@admsolarpower.com

Website: www.admsolarpower.com