

500Wp-510Wp

Mono PERC PV Modules

Bi-Facial | **DCR** & Non-DCR

ADm

Solar

132 M10
Halfcut Cells

10BB Mono
PERC Technology

70 ± 10%
Bifaciality Factor

0 to +5Wp
+Ve Power Tolerance



Bifacial Power Gain

Up to 30% power gain, depending on the installation and the albedo of the reflecting surface.



MBB Cell Technology

Reduces conversion losses while enhancing partial shade performance. Ensures improved light absorption & minimizes cell stress for better efficiency.



Round Ribbons

Cylindrical tabbing wires reduce shadowing on the active cell area, allowing greater light absorption and improved module efficiency.



Lower Thermal Coefficients

Optimized temperature coefficients enable higher power generation even in high ambient temperature conditions.



0% Microcracks & Hotspots

Pre & post Electroluminescence (EL) inspections ensure modules are free from defects such as microcracks & hotspots.



High Profitability

Lower Balance of System (BOS) costs lead to greater savings, reduced LCOE, and a faster return on investment.



Excellent Partial Shade Performance

Half-cut cell design delivers better power output even under partial shading conditions.



Precision Engineering

Manufactured in a fully automated facility with advanced machinery and subjected to 55 stringent quality checks.

25

YEARS

Performance Warranty

10

YEARS

Product Warranty



Know More

Certifications



IEC 61215/IS14286, IEC 61730-1, IEC 61730-2, IEC 62804 (PID), IEC 61701 (Salt Mist), IEC 62716 (Ammonia Corrosion), IEC 61853 (Performance, PAN & IAM), IEC 60068-2 (Sand Dust), IEC 62782 (DMLT), LID, LeTID, BIS Approved, ALMM Enlisted

Applications



Utility
Projects



Home &
Residential



C & I
Projects



Water
Pumps

Electrical Characteristics (STC)

Model Series	ADMB500	ADMB505	ADMB510
Maximum Power – Pmax (Wp)	500	505	510
Maximum Power Voltage – Vmpp (V)	39.95	40.32	40.45
Maximum Power Current – Impp (A)	12.52	12.53	12.61
Open Circuit Voltage – Voc (V)	45.40	45.41	45.64
Short Circuit Current – Isc (A)	13.65	13.59	13.64
Module Efficiency (%)	20.94	21.15	21.36
Fill Factor (FF)	81.84	81.84	81.84

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of <5% for every 200W/m² reduction in irradiance, according to EN 60904-1

Electrical Characteristics (NOCT)

Maximum Power – Pmax (Wp)	365	369	372
Maximum Power Voltage – Vmpp (V)	29.80	30.08	20.18
Maximum Power Current – Impp (A)	10.13	10.14	10.20
Open Circuit Voltage – Voc (V)	33.87	33.88	34.05
Short Circuit Current – Isc (A)	11.04	10.99	11.03

NOCT: 800W/m² irradiance, 20°C ambient temperature, Wind Speed 1 m/sec

Electrical Characteristics (BNPI)

Maximum Power – Pmax (Wp)	554.00	559.54	565.08
Maximum Power Voltage – Vmpp (V)	39.95	40.32	40.45
Maximum Power Current – Impp (A)	13.87	13.88	13.97
Open Circuit Voltage – Voc (V)	45.40	45.41	45.64
Short Circuit Current – Isc (A)	14.91	15.06	15.13
Module Efficiency (%)	23.35	23.58	23.82

Temperature Co-Efficient (Tc) and Permissible Operating Conditions

Temperature Co-Efficient of Voc	-0.27 %/°C
Temperature Co-Efficient of Isc	0.045 %/°C
Temperature Co-Efficient of Power	-0.35 %/°C
NOCT	45 ± 2°C
Maximum series fuse ratings	25A
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC

Mechanical Characteristics

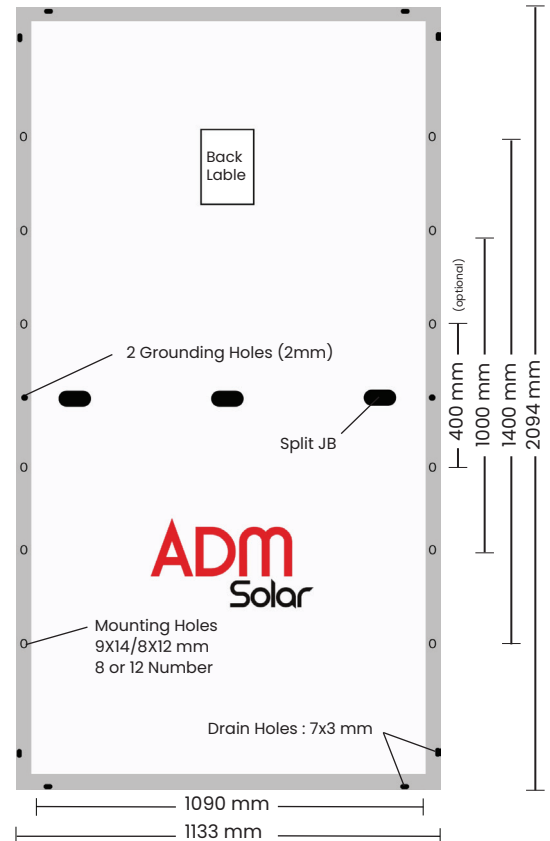
Module Dimensions	2094 mm x 1133 mm x 35 mm
Module Weight	28Kg
Solar Cells (PID Free)	132 (11 x 6 x 2) Mono PERC Cut Cells, 10BB (91 x 182)mm
Front Glass	3.2mm high transmission AR Coated Ion Tempered PV Glass
Cell Encapsulant	PID Free EVA (Ethylene Vinyl Acetate) – FC / UFC
Frame	Silver Anodized Aluminium Frame with twin wall profile
Backsheet	Composite Film (White / Black / Transparent)
Junction Box	IP68 Rated, Split Junction Box with Individual bypass Diode
Cables	400 mm (+) / 400 mm (-) with MC4 Compatible Connectors
Application Class	Class A (Safety Class II)
Mechanical Load	5400 Pa (Snow) / 2400 Pa (Wind)
Packaging	Standard 28 Modules per Pallet
Maximum System Voltage	

Note: Specifications subject to change without prior notice.

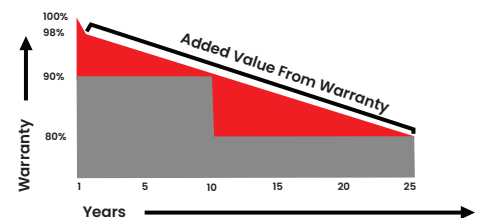
Approvals and certifications

Products:	IEC 61215/IS14286, IEC 61730-1, IEC 61730-2, IEC 62804 (PID), IEC 61701 (Salt Mist), IEC 62716 (Ammonia Corrosion), IEC61853 (Performance, PAN & IAM), IEC 60068-2 (Sand Dust), IEC 62782 (DMLT), LID, LeTID, BIS Approved, ALMM Enlisted
Manufacturing:	ISO 9001:2015, ISO 14001: 2015 ISO 45001:2018

Back Side of Panel



Warranty Graph



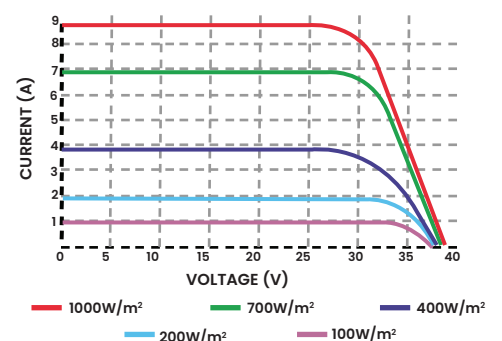
Product Warranty :

10 Years

Performance Warranty :

Linear Power Warranty for 25 Years
with <2% degradation for 1st year and
0.5% from 2 to 25 year.

I-V Curve (for Different Irradiance)



PACKAGING INFORMATION

Truck Type	No. of Pallets	No. of Modules	KW (Approx)
22 ft.	12	336	168
40 ft.	22	616	308
Container Type	No. of Pallets	No. of Modules	KW (Approx)
40 HQ	22	616	308