

640Wp N-Type

TOPCon PV Modules

Bi-Facial Dual Glass | DCR & Non-DCR

ADm
Solar

132 G12-R

Halfcut Cells

16BB N-Type

TOPCon Technology

23.61%

Max Efficiency

80 ± 10%

Bifaciality Factor



N-TYPE TOPCon Cells

Higher efficiency, lower degradation, excellent low-light performance, and superior temperature stability for reliable, long-term energy generation.



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.



Reduced Degradation

Lower Light-Induced Degradation (LID) & Light & Elevated Temperature-Induced Degradation (LeTID) ensure improved performance stability & long-term energy output.



High Profitability

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



Bifacial Power Gain

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



0% Microcracks & Hotspots

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

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



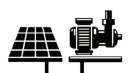
Utility
Projects



Home &
Residential



C & I
Projects



Water
Pumps

Electrical Characteristics (STC)

Model Series	ADMTGG640
Maximum Power – Pmax (Wp)	640
Maximum Power Voltage – Vmpp (V)	41.00
Maximum Power Current – Impp (A)	15.62
Open Circuit Voltage – Voc (V)	49.13
Short Circuit Current – Isc (A)	16.04
Module Efficiency (%)	23.61
Fill Factor (FF)	81.21

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)	473.60
Maximum Power Voltage – Vmpp (V)	30.75
Maximum Power Current – Impp (A)	12.64
Open Circuit Voltage – Voc (V)	36.85
Short Circuit Current – Isc (A)	12.98

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

Electrical Characteristics (BNPI)

Maximum Power – Pmax (Wp)	709.12
Maximum Power Voltage – Vmpp (V)	41.00
Maximum Power Current – Impp (A)	17.30
Open Circuit Voltage – Voc (V)	49.13
Short Circuit Current – Isc (A)	17.77
Module Efficiency (%)	26.16

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	-0.30%/°C
NOCT	45 ± 2°C
Maximum series fuse ratings	35A
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Bifaciality Factor	80 ± 10%

Mechanical Characteristics

Module Dimensions	2178 mm x 1134 mm x 35 mm
Module Weight	36Kg
Solar Cells (PID Free)	132 (12 x 6 x 2) N-Type TOPCon G12-R Cells, 16BB (182 x 105)mm
Superstrate	2mm high transmission AR Coated, low Iron, tempered PV glass
Cell Encapsulant	PID Free EVA (Ethylene Vinyl Acetate) - FC / UFC
Frame	Silver Anodized Aluminium Frame with twin wall profile
Substrate	2mm high transmission low iron, tempered PV glass
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

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), IEC 61853 (Performance, PAN & IAM), IEC 60068-2 (Sand Dust), IEC 62782 (DMLT), IEC 61701, IEC 61702, IEC 61703, IEC 61704, IEC 61705, IEC 61706, IEC 61707, IEC 61708, IEC 61709, IEC 61710, IEC 61711, IEC 61712, IEC 61713, IEC 61714, IEC 61715, IEC 61716, IEC 61717, IEC 61718, IEC 61719, IEC 61720, IEC 61721, IEC 61722, IEC 61723, IEC 61724, IEC 61725, IEC 61726, IEC 61727, IEC 61728, IEC 61729, IEC 61730, IEC 61731, IEC 61732, IEC 61733, IEC 61734, IEC 61735, IEC 61736, IEC 61737, IEC 61738, IEC 61739, IEC 61740, IEC 61741, IEC 61742, IEC 61743, IEC 61744, IEC 61745, IEC 61746, IEC 61747, IEC 61748, IEC 61749, IEC 61750, IEC 61751, IEC 61752, IEC 61753, IEC 61754, IEC 61755, IEC 61756, IEC 61757, IEC 61758, IEC 61759, IEC 61760, IEC 61761, IEC 61762, IEC 61763, IEC 61764, IEC 61765, IEC 61766, IEC 61767, IEC 61768, IEC 61769, IEC 61770, IEC 61771, IEC 61772, IEC 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