



TOPCon N-Type Bifacial 16BB Module



590 Wp

Maximum Output Power



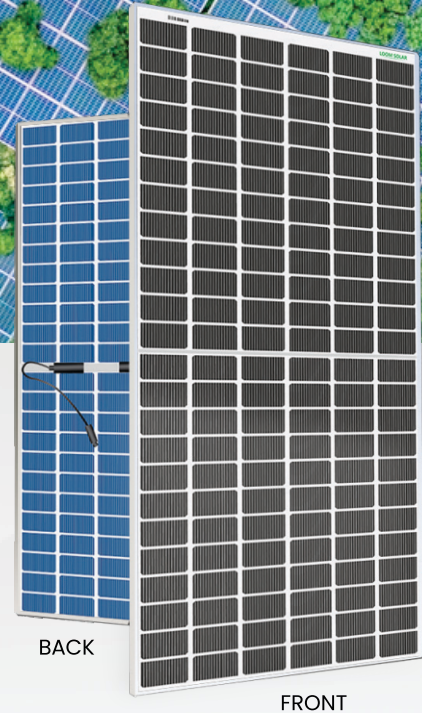
22.80%

Upto Efficiency



0~+5 Wp

Power Tolerance



MORE POWER



Advance technology Halfcut - (MBB)



Bifaciality advantage more power from the back side



Better output in low irradiance



Lower temperature coefficient (Pmax): -0.29%/°C, increases energy yield in hot climate



Lower LCOE & system cost

MORE RELIABLE



Tested as per IEC 61215 & 61730 standard



Minimizes micro-crack impacts



Versatile suitable for Utility, Rooftop, and other general applications



Enhanced Product Warranty on Materials and Workmanship*



Linear Power Performance Warranty*

**1st year power degradation no more than 1%
Subsequent annual power degradation no more than 0.3%**

*According to the applicable KRD SOLAR warranty statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001: 2015 / Quality management system

PRODUCT CERTIFICATES*

BIS / ISO / CE / IEC / AEO



The specific certifications applicable to different module types and markets may vary. Therefore, not all of the certifications listed herein will necessarily apply to the products you purchase or use. Please contact your local KRD SOLAR sales representative to confirm the specific certifications available for your product and applicable in the regions where the products will be used.

KRD SOLAR is a trusted name in sustainable energy solutions, specializing in high-quality solar panels and systems. Based in Greater Noida, we are committed to powering a greener tomorrow through reliable, efficient, and cost-effective solar technology. With a strong focus on innovation, quality, and customer satisfaction, we deliver end-to-end solar solutions tailored to meet diverse residential, commercial, and industrial energy needs.

* For detailed information, please refer to the Installation Manual.

ELECTRICAL DATA | STC*

Specification	Data
Model Specification	SHARK-590
Peak Power, Pmax (Wp)	590
Maximum Power Voltage, Vmp (V)	44.61
Maximum Power Current, Imp (A)	13.22
Open Circuit Voltage, Voc (V)	51.71
Short Circuit Current, Isc (A)	13.93
Module Efficiency (%)	22.80
Power Output Tolerance-Pmax (Wp)	0~+5
Fill Factor	81.91

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NOCT

Specification	Data
Peak Power, Pmax (Wp)	590
Maximum Power Voltage, Vmp (V)	43.50
Maximum Power Current, Imp (A)	13.57
Open Circuit Voltage, Voc (V)	51.00
Short Circuit Current, Isc (A)	14.45
Module Efficiency (%)	22.0
Fill Factor	79.75

* Under Nominal operating cell temperature (NOCT) of irradiance of 800 W/m², spectrum AM 1.5 and cell temperature of 20°C.

MECHANICAL DATA

Specification	Data
Cell Arrangement	144 Cells / [12x6 12x6]
Dimensions (mm)	2278 H x 1134 L x 30 D
Area of Module (LxB)	2.58 Sqm
Weight (kg)	28
Glass	3.2 mm ARC tempered glass
Frame	Anodized aluminium alloy
Junction-Box	IP68
Cable (mm ²)	4.0
Connector	MC4

* For detailed information, please contact your local KRD SOLAR sales and technical representatives.

MAXIMUM RATINGS

Specification	Data
Operating Temperature (°C)	25°C±4°C
Max. System Voltage (V)	1500
Max. Series Fuse Rating (A)	30
Fire Rating	Class-C
By Pass Diode Rating	30 amp

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29% / °C
Temperature Coefficient (Voc)	-0.24% / °C
Temperature Coefficient (Isc)	0.042% / °C

PARTNER SECTION

Please be kindly advised that PV modules must be handled and installed by qualified personnel with appropriate technical skills and training. It is essential to carefully read and follow all safety guidelines and installation instructions before using our PV modules. Installation instructions must be strictly followed. For detailed guidance, please refer to the official installation manual or contact our technical support team for assistance with approved installation methods.

The specifications and key features provided in this datasheet are subject to minor deviations and are not guaranteed. Due to ongoing innovation and continuous improvements in research and development, KRD SOLAR reserves the right to modify the information described herein at any time without prior notice. Please ensure you refer to the most recent version of the datasheet, which forms an integral part of the binding agreement governing all transactions related to the purchase and sale of the products described.

ENGINEERING DRAWING (mm)

