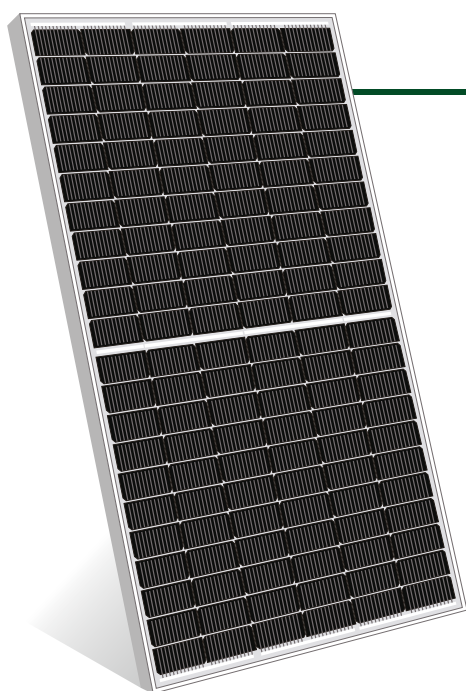


Mono Crystalline PERC Half-Cut Cell PV Modules

Bifacial Dual Glass



PIX MBHG 132
470-500 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
21.01 %



Module Warranty
12 Years



Output Warranty
30 Years

KEY FEATURES



PID Resistance with long term reliability.



Better Performance even at low irradiation.



Maximum System Voltage:
1500 V DC.



Increased string length & **low BOS Cost.**



Withstand upto **5400 Pa** of snow load.



Withstand upto **2400 Pa** of wind load.



Rigorous Testing Criteria 100% EL Inspection ensuring defect-free modules.

ABOUT PIXON

PIXON is a venture of the Marwadi group. It is equipped with the state-of-the-art technology and turnkey machinery of 1 GW line capacity for solar modules and houses clean room environment facility to 1GW manufacturing line for EVA films. As the world adheres to solar energy revolution, PIXON envisions to globally provide efficient solar energy products and solutions. Thus, enhance and contribute to Global Climate Sustainability.

CERTIFICATIONS

Product certifications are under process

IDEAL FOR: Utility Projects, Commercial & Industrial Projects, Residential Projects, Institutional Projects, Off-grid Projects

PIXON GREEN ENERGY PRIVATE LIMITED

Manufacturing Unit: R.S. No.: 157/1, 158/1, 158/2, 165/1, 166 of Khijadiya Nana, R.S. No.: 15/1, Rajkot - Jamnagar Highway, Paddhari, Rajkot - 360110

1800 108 8800 | sales@pixonenergy.com

*Due to continuous product updation, specifications may change without notice.



**Solar is
the new Green!**

PIX MBHG 132 500

M10

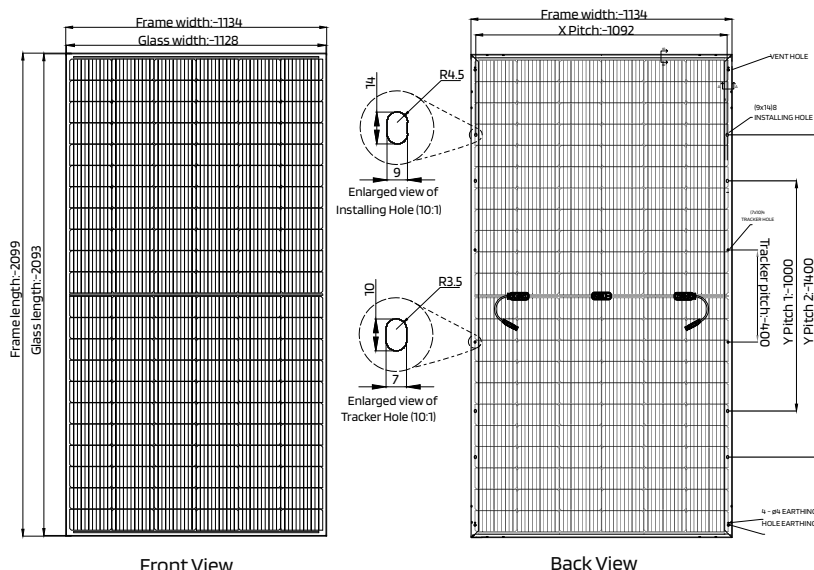
500W

21.01%

+4.99Wp

≤2.0%

Mono Crystalline Perc PV Modules

10 BB HALF-CUT CELL
MODULEMAXIMUM
POWER OUTPUTMAXIMUM
EFFICIENCYPOWER
TOLERANCEFIRST YEAR
POWER DEGRADATION

Front View

Back View

*All Dimensions are in mm.

*Cable Length may vary based on Requirements.

MECHANICAL DATA

Cells Specifications (Number, Size)	132 Cells, 182mm x 91mm
Module Dimensions	2099mm X 1134 mm X 35 mm
Weight	25 kg
Glass	High Transmission Low Iron Tempered Dual Glass, AR coated, 2mm (T)
Embedding	Low Shrinkage PID Resistance EVA/POE/EPE, UV Resistant
Junction Box	IP 68 Rated, Split JB with bypass diode
Number of Diodes	3 Bypass Diodes
Cables & Connectors	Cable Length 400mm, 4mm ² , MC4 Connectors / MC4 Compatible
Frame	Anodized Aluminum Alloy Silver Profile (Black Frame Available on Request)

MECHANICAL LOAD TEST PARAMETERS

Front Side Maximum Static Load	5400Pa
Rear Side Maximum Static Load	2400Pa

TEMPERATURE RATING

NOCT (Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coefficient of Current (Isc)	0.04% / °C
Temperature Coefficient of Voltage (Voc)	-0.24% / °C
Temperature Coefficient of Power (Pmax)	-0.31% / °C

OPERATING PARAMETERS

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A

ELECTRICAL PARAMETERS AT STC (25°C) & NMOT (20°C) (AM 1.5g, 1000 W/m², 1m/s) According to EN 60904-3

Test Conditions		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power	Pmax [Wp]	470	354.29	475	358.10	480	361.92	485	365.86	490	369.42	495	373.38	500	376.98
Module Efficiency	η [%]	19.75	-	19.96	-	20.17	-	20.39	-	20.59	-	20.81	-	21.01	-
Open-Circuit Voltage	Voc [V]	45.87	43.58	45.96	43.66	46.06	43.76	46.15	43.84	46.26	43.95	46.37	44.05	46.46	44.14
Short-Circuit Current	Isc [A]	12.88	10.39	12.99	10.48	13.1	10.57	13.19	10.64	13.27	10.70	13.36	10.78	13.49	10.88
Max Rated Voltage	Vmp [V]	38.12	36.21	38.22	36.31	38.32	36.40	38.43	36.51	38.53	36.60	38.76	36.82	38.89	36.95
Max Rated Current	Imp [A]	12.33	9.78	12.43	9.86	12.53	9.94	12.63	10.02	12.72	10.09	12.78	10.14	12.86	10.20

STC ~ Irradiance 1000W/m², Cell Temperature 25°C and AM 1.5
 NOCT ~ Irradiance 800 W/m², AM 1.5, Ambient Temperature 20°C and Wind Speed 1 m/s

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	Peak Power (STC)	470	475	480	485	490	495	500
10%	Maximum Power (Pmax)	517	523	528	534	539	545	550
	Module Efficiency (%)	21.72%	21.95%	22.18%	22.41%	22.64%	22.88%	23.11%
20%	Maximum Power (Pmax)	564	570	576	582	588	594	600
	Module Efficiency (%)	23.69%	23.95%	24.20%	24.45%	24.70%	24.96%	25.21%
30%	Maximum Power (Pmax)	611	618	624	631	637	644	650
	Module Efficiency (%)	25.67%	25.94%	26.22%	26.49%	26.76%	27.03%	27.31%

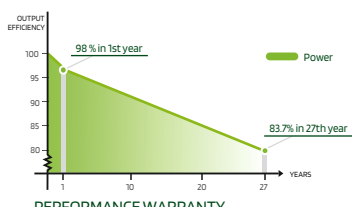
*Power gain from rear side depends upon the ground Reflectance & Bifaciality factor.

PACKAGING CONFIGURATION

Modules per Box	31 Pieces
Modules per 40' Container	496 Pices

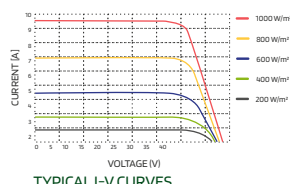
WARRANTY

Product Warranty	12 Years
Performance Warranty	30 Years Linear Power Warranty 0.55% Annual Degradation Over 30 Years



PERFORMANCE WARRANTY

Average relative efficiency reduction of 5% at 200 W/m² According to EN 60904-1.
 Measuring uncertainty ±3%



TYPICAL I-V CURVES



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