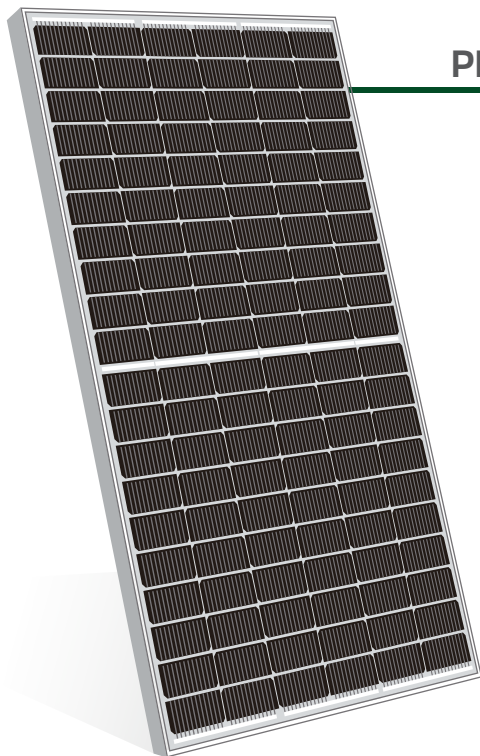


# Mono PERC Bifacial Half-Cut Glass to Transparent Backsheet PV Modules



**PIX MBHTB 120**  
570-600 Wp



Power Tolerance  
**+4.99Wp**



Efficiency Upto  
**20.99 %**



Module Warranty  
**12 Years**



Output Warranty  
**27 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.

**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

## ABOUT PIXON

PIXON is a venture of the Marwadi group. It is equipped with the state-of-the-art technology and turnkey machinery of 1.3 GW line capacity for solar modules and houses clean room environment facility to 1 GW 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

ALMM



ALMM APPROVED

IEC (International Electrotechnical Commission)

- IEC 61215-1:2021
- IEC 61215-2:2021
- IEC 61215-1:2021
- IEC 61730-1:2016
- IEC 61730-2:2016
- IEC TS 61701 Ed.3 :2020 Severity-6
- IEC TS 62804-1:2015
- IEC 61853-1:2011
- IEC 61853-2:2016
- IEC 62716:2013
- IEC 60068-2-68:1994-08
- IEC TS 63342:2022

BIS: Bureau of Indian Standards

- IS 14286:2010
- IS 61730-1:2004
- IS 61730-2:2004

US Certification

- UL 61730-1:2022
- UL 61730-2:2022

ISO Certification

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018(OHSAS)

CE Mark Testing & Certification

CLASS II

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



**Solar is  
the new Green!**

PIX MBHTB 120 600

M12

600W

20.99%

+4.99Wp

≤2.0%

Mono Crystalline Perc PV Modules

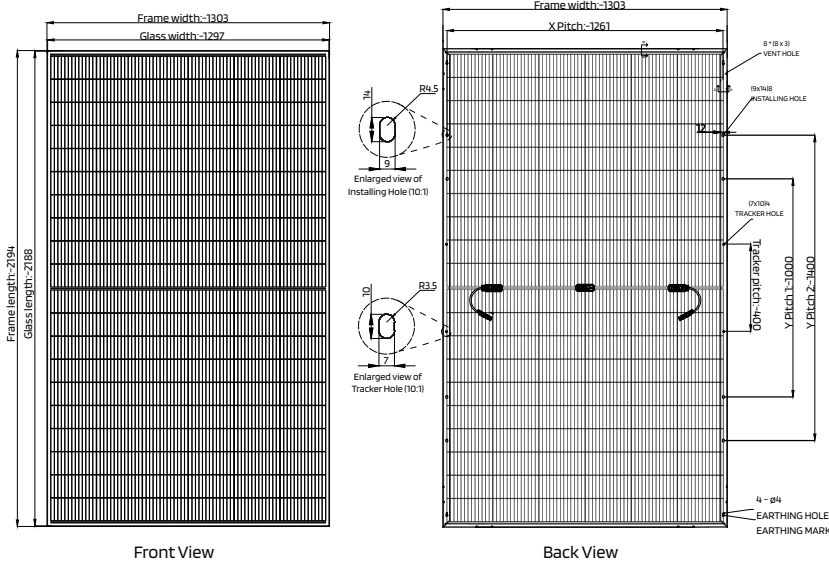
12 BB HALF-CUT CELL MODULE

MAXIMUM POWER OUTPUT

MAXIMUM EFFICIENCY

POWER TOLERANCE

FIRST YEAR POWER DEGRADATION



\*All Dimensions are in mm.

\*Cable Length may vary based on Requirements.

MECHANICAL DATA

Cells Specifications (Number, Size)	120 Cells, 210 mm X 105 mm
Module Dimensions	2194 mm X 1303 mm X 35 mm
Weight	29 kg
Glass	High Transmission Low Iron Tempered Glass, AR coated, 3.2 mm (T)
Embedding	Low Shrinkage PID Resistance EVA, UV Resistant
Backsheet	PVDF / Tedlar (Transparent)
Junction Box	IP 68 Rated
Number of Diodes	3 Bypass Diodes
Cables & Connectors	Cable Length 400mm, 4mm <sup>2</sup> , 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 Coe. of Current (Isc)	0.04% / oC
Temperature Coe. of Voltage (Voc)	-0.24% / oC
Temperature Coe. of Power (Pmax)	-0.31% / oC

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/m<sup>2</sup>, 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]	570	429.66	575	433.22	580	437.33	585	441.20	590	444.82	595	448.72	600	452.36
Module Efficiency	η [%]	19.94	-	20.10	-	20.29	-	20.47	-	20.64	-	20.82	-	20.99	-
Open-Circuit Voltage	Voc [V]	40.91	38.86	40.95	38.90	41.05	39	41.25	39.19	41.45	39.38	41.65	39.57	41.85	39.76
Short-Circuit Current	Isc [A]	18	14.52	18.07	14.57	18.13	14.62	18.18	14.66	18.22	14.70	18.27	14.74	18.31	14.77
Max Rated Voltage	Vmp [V]	33.55	31.87	33.65	31.97	33.85	32.16	34.05	32.35	34.25	32.54	34.45	32.73	34.65	32.92
Max Rated Current	Iimp [A]	16.99	13.48	17.08	13.55	17.14	13.60	17.19	13.64	17.23	13.67	17.28	13.71	17.32	13.74

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	Peak Power (STC)	570	575	580	585	590	595	600
10%	Maximum Power (Pmax)	627	633	638	644	649	655	660
	Module Efficiency (%)	21.93%	22.12%	22.32%	22.51%	22.70%	22.89%	23.09%
20%	Maximum Power (Pmax)	684	690	696	702	708	714	720
	Module Efficiency (%)	23.93%	24.14%	24.35%	24.56%	24.77%	24.98%	25.19%
30%	Maximum Power (Pmax)	741	748	754	761	767	774	780
	Module Efficiency (%)	25.92%	26.15%	26.37%	26.60%	26.83%	27.06%	27.28%

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

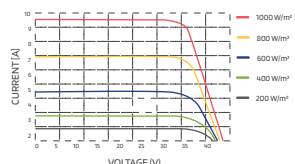
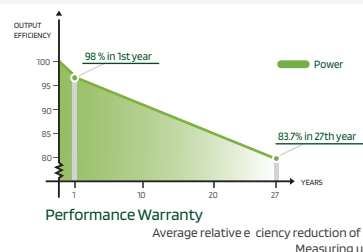
PACKAGING CONFIGURATION

Modules per Box	31 Pieces
Modules per 40' Container	620 Pieces

WARRANTY

Product Warranty	12 Years
Performance Warranty	27 Years Linear Power Warranty 0.55% Annual Degradation Over 27 Years

CERTIFICATIONS



Solar is the new Green!