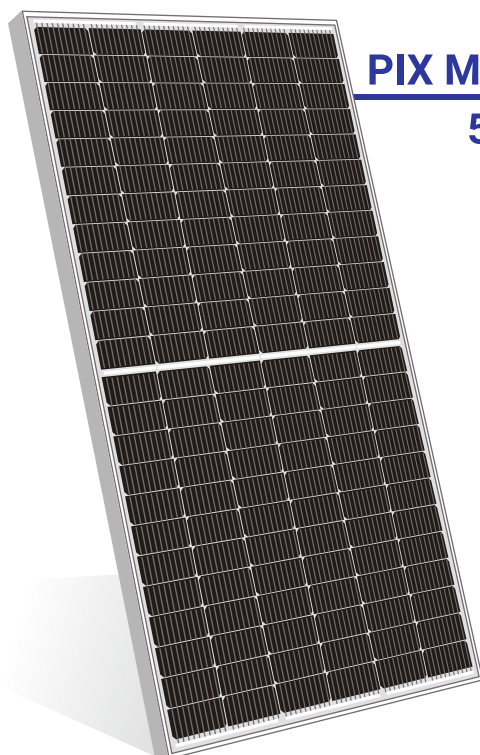


Mono PERC Bifacial Half-Cut DCR Glass to Transparent Backsheet PV Modules



PIX MBHDTB 144
510-550 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
21.29 %



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 1GW 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

ALMM



ALMM APPROVED

IEC (International Electrotechnical Commission)

- IEC 61215-1:2021
- IEC 61215-1-1:2021
- IEC 61215-2:2021
- 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)

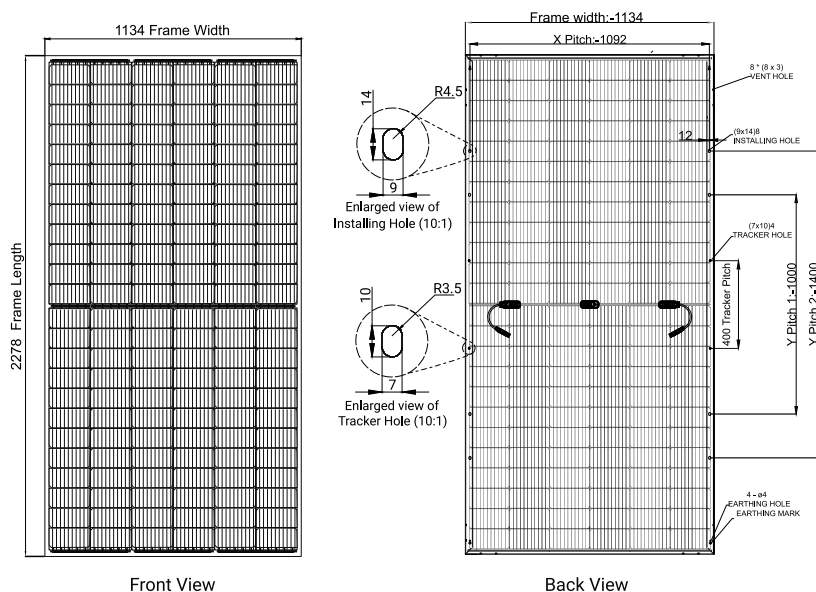
CE Mark Testing & Certification

CLASS II

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



Solar is
the new Green!

PIX MBHDTB 144 550
M10
550W
21.29%
+4.99Wp
≤2.0%
Mono Crystalline Perc DCR PV Modules
**10 BB HALF-CUT CELL
MODULE**
**MAXIMUM
POWER OUTPUT**
**MAXIMUM
EFFICIENCY**
**POWER
TOLERANCE**
**FIRST 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)	144 Cells, 182 mm X 91 mm
Module Dimensions	2278 mm X 1134 mm X 35 mm
Weight	27 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 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

OPERATING PARAMETERS

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

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

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	STC	NMOT	STC	NMOT
Peak Power	Pmax [Wp]	510	384.68	515	388.23	520	392.04	525	395.95	530	399.58	535	403.53	540	407.19	545	410.86	550	414.64
Module Efficiency	η [%]	19.76	-	19.94	-	20.13	-	20.33	-	20.52	-	20.72	-	20.91	-	21.10	-	21.29	-
Open-Circuit Voltage	Voc [V]	48.47	46.05	48.62	46.19	48.85	46.41	49.05	46.60	49.20	46.74	49.35	46.88	49.50	47.03	49.65	47.17	49.80	47.31
Short-Circuit Current	Isc [A]	13.45	10.85	13.55	10.93	13.61	10.98	13.65	11.01	13.71	11.06	13.78	11.11	13.85	11.17	13.92	11.23	13.99	11.28
Max Rated Voltage	Vmp [V]	40.86	38.82	40.91	38.86	41.05	39	41.20	39.14	41.35	39.28	41.50	39.43	41.65	39.57	41.80	39.71	41.96	39.86
Max Rated Current	Imp [A]	12.49	9.91	12.59	9.99	12.67	10.05	12.75	10.12	12.82	10.17	12.90	10.24	12.97	10.29	13.04	10.35	13.11	10.40

 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)	510	515	520	525	530	535	540	545	550
10%	Maximum Power (Pmax)	561	567	572	578	583	589	594	600	605
	Module Efficiency (%)	21.72%	21.93%	22.14%	22.36%	22.57%	22.78%	22.99%	23.21%	23.42%
20%	Maximum Power (Pmax)	612	618	624	630	636	642	648	654	660
	Module Efficiency (%)	23.69%	23.92%	24.16%	24.39%	24.62%	24.85%	25.08%	25.32%	25.55%
30%	Maximum Power (Pmax)	663	670	676	683	689	696	702	709	715
	Module Efficiency (%)	25.67%	25.92%	26.17%	26.42%	26.67%	26.92%	27.18%	27.43%	27.68%

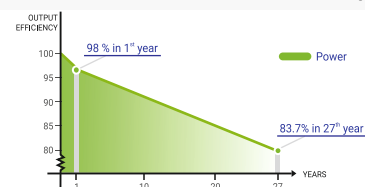
*Power gain from rear side depends upon the ground Reflectance & Bifaciality factor.

PACKAGING CONFIGURATION

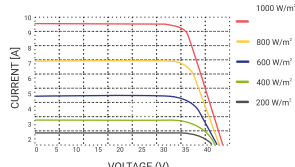
Modules per Box	31 Pieces
Modules per 40' Container	620 Pieces

WARRANTY

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



PERFORMANCE WARRANTY

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


TYPICAL I-V CURVES

CERTIFICATIONS

ALMM


**Solar is
the new Green!**