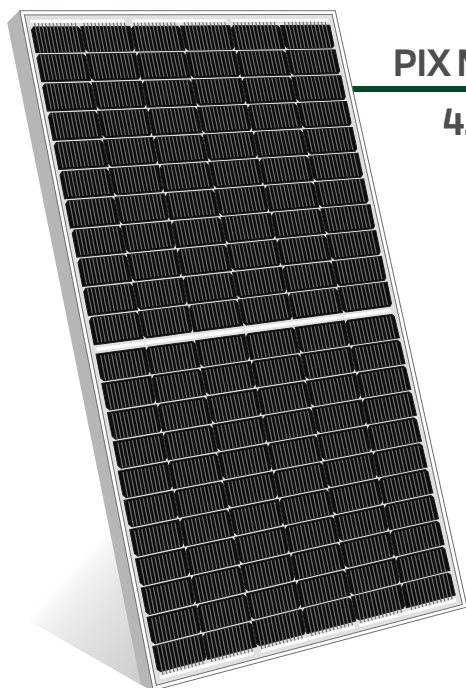


Mono Crystalline PERC Half-Cut Cell PV Modules

Bifacial Dual Glass



PIX MBHG 120
420-455 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
20.96 %



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.

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 120 455

M10

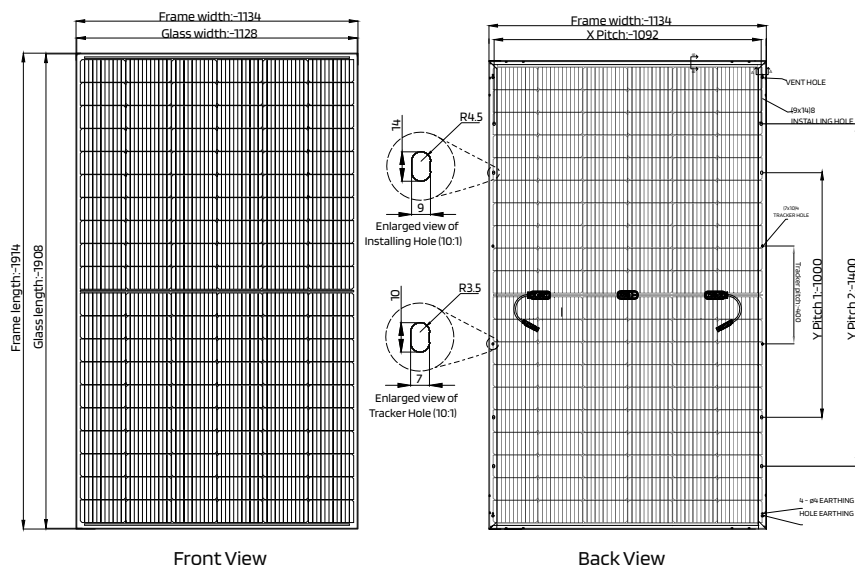
455W

20.96%

+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)	120 Cells, 182mm x 91mm
Module Dimensions	1914mm X 1134 mm X 35 mm
Weight	23 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	STC	NMOT
Peak Power	P _{max} [Wp]	420	316.64	425	320.40	430	324.36	435	327.98	440	331.89	445	335.64	450	339.31	455	342.99
Module Efficiency	η [%]	19.35	-	19.58	-	19.83	-	20.05	-	20.29	-	20.52	-	20.74	-	20.96	-
Open-Circuit Voltage	V _{oc} [V]	40.87	38.83	40.98	38.93	41.11	39.05	41.22	39.16	41.31	39.24	41.43	39.36	41.52	39.44	41.62	39.54
Short-Circuit Current	I _{sc} [A]	13.27	10.70	13.38	10.79	13.47	10.86	13.57	10.94	13.68	11.03	13.79	11.12	13.89	11.20	13.97	11.27
Max Rated Voltage	V _{mp} [V]	35.69	33.91	35.81	34.02	35.98	34.18	36.05	34.25	36.18	34.37	36.29	34.48	36.42	34.60	36.52	34.69
Max Rated Current	I _{mp} [A]	11.77	9.34	11.87	9.42	11.96	9.49	12.07	9.58	12.17	9.66	12.27	9.74	12.36	9.81	12.46	9.89

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

		420	425	430	435	440	445	450	455
Peak Power (STC)		420	425	430	435	440	445	450	455
10%	Maximum Power (P _{max})	462	468	473	479	484	490	495	501
	Module Efficiency (%)	21.29%	21.54%	21.79%	22.05%	22.30%	22.55%	22.81%	23.06%
20%	Maximum Power (P _{max})	504	510	516	522	528	534	540	546
	Module Efficiency (%)	23.22%	23.50%	23.77%	24.05%	24.33%	24.60%	24.88%	25.16%
30%	Maximum Power (P _{max})	546	553	559	566	572	579	585	592
	Module Efficiency (%)	25.16%	25.46%	25.75%	26.05%	26.35%	26.65%	26.95%	27.25%

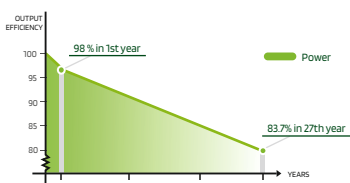
*Power gain from rear side depends upon the ground Reflectance & Bifaciality factor.

PACKAGING CONFIGURATION

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

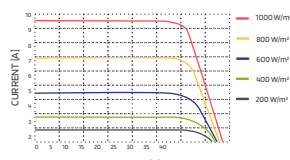
WARRANTY

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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