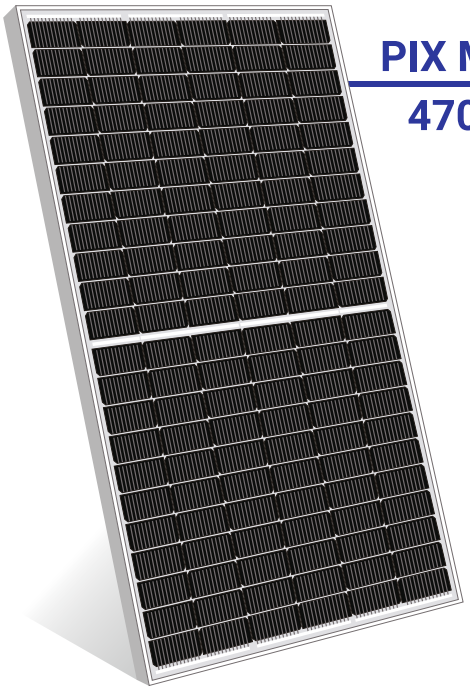
Mono PERC Half-cut Glass to Black Backsheet PV Modules

PIXON
Redefining Solar



PIX MPHB 132
470 - 500 Wp

Power Tolerance
+4.99Wp

Efficiency Upto
21.01%

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

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

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!

PIXON GREEN ENERGY PRIVATE LIMITED

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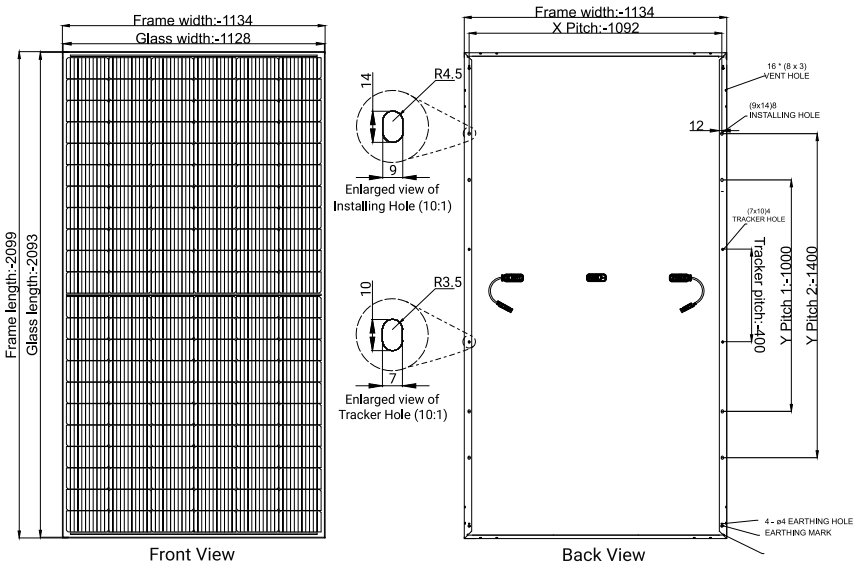
D/MPHB/132/100924/E-01-01

PIXON
Redefining Solar

TECHNICAL DATASHEET
MONOFACIAL M10 SERIES

PIX MPHB 132 500	M10	500W	21.01%	+4.99Wp	≤2.0%
Mono Crystalline Perc PV Modules	10 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)	132Cells , 182 mm X 91 mm
Module Dimensions	2099 mm X 1134 mm X 35 mm
Weight	25 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 (Black)
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

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 (AM 1.5g, 1000 W/m²,1m/s, 25°C) According to EN 60904-3

Peak Power	Pmax [Wp]	470	475	480	485	490	495	500
Module Efficiency	η [%]	19.75	19.96	20.17	20.39	20.59	20.81	21.01
Open-Circuit Voltage	Voc [V]	45.87	45.96	46.06	46.15	46.26	46.37	46.46
Short-Circuit Current	Isc [A]	12.88	12.99	13.1	13.19	13.27	13.36	13.49
Max Rated Voltage	Vmp [V]	38.12	38.22	38.32	38.43	38.53	38.76	38.89
Max Rated Current	Imp [A]	12.33	12.43	12.53	12.63	12.72	12.78	12.86

ELECTRICAL PARAMETERS AT NMOT (AM 1.5g, 800 W/m², 20°C) According to EN 60904-3

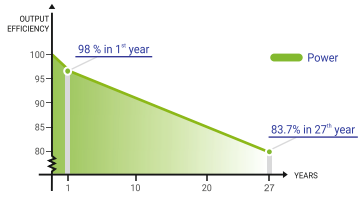
Peak Power	Pmax [Wp]	354.29	358.10	361.92	365.86	369.42	373.38	376.98
Open-Circuit Voltage	Voc [V]	43.58	43.66	43.76	43.84	43.95	44.05	44.14
Short-Circuit Current	Isc [A]	10.39	10.48	10.57	10.64	10.70	10.78	10.88
Max Rated Voltage	Vmp [V]	36.21	36.31	36.40	36.51	36.60	36.82	36.95
Max Rated Current	Imp [A]	9.78	9.86	9.94	10.02	10.09	10.14	10.20

PACKAGING CONFIGURATION

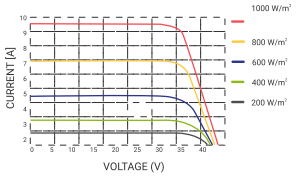
Modules per Box	31 Pieces
Modules per 40' Container	496 Pieces

WARRANTY

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



PERFORMANCE WARRANTY



TYPICAL I-V CURVES

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

CERTIFICATIONS

ALMM

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