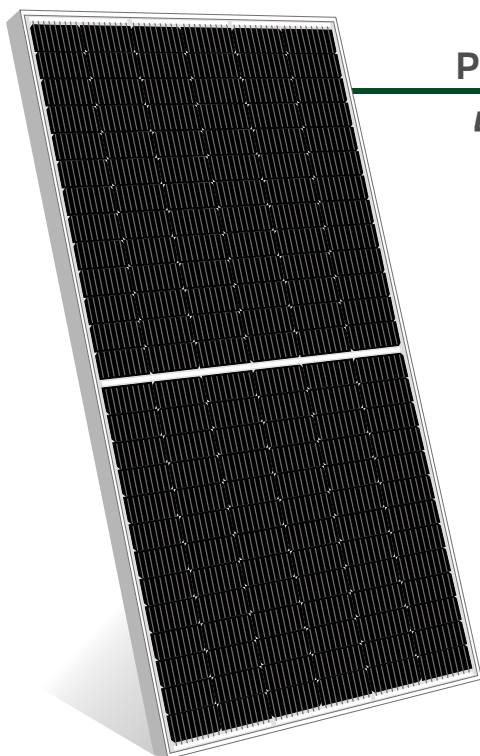


Mono Crystalline PERC Half-Cut Cell PV Modules

Bifacial Dual Glass



PIX MBHG 156
460-490 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
20.89 %



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.

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

Product certifications are under process

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



**Solar is
the new Green!**

PIX MBHG 156 490

M6

490W

20.89%

+4.99Wp

≤2.0%

Mono Crystalline Perc PV Modules

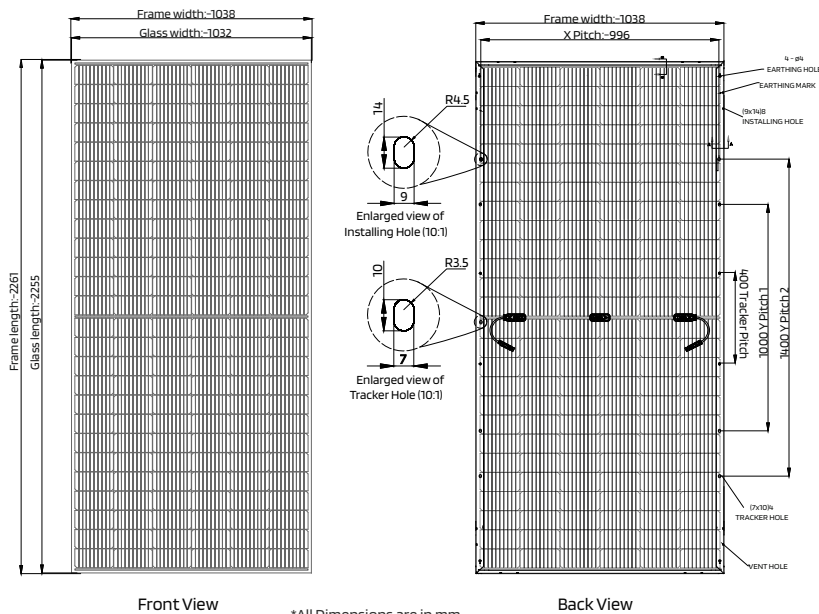
9 BB HALF-CUT CELL
MODULE

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) | 156 Cells, 166 mm X 83 mm |
| Module Dimensions | 2261 mm X 1038 mm X 35 mm |
| Weight | 29 kg |
| Glass | High Transmission Low Iron Tempered Dual Glass, AR coated, 2 mm (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] | 460 | 346.74 | 465 | 350.51 | 470 | 354.37 | 475 | 358.17 | 480 | 361.98 | 485 | 365.65 | 490 | 369.48 |
| Module Efficiency | η [%] | 19.60 | - | 19.81 | - | 20.03 | - | 20.25 | - | 20.46 | - | 20.67 | - | 20.89 | - |
| Open-Circuit Voltage | Voc [V] | 53.16 | 50.50 | 53.23 | 50.57 | 53.29 | 50.63 | 53.41 | 50.74 | 53.52 | 50.84 | 53.63 | 50.95 | 53.72 | 51.03 |
| Short-Circuit Current | Isc [A] | 11.18 | 9.02 | 11.28 | 9.10 | 11.39 | 9.19 | 11.48 | 9.26 | 11.56 | 9.32 | 11.67 | 9.41 | 11.78 | 9.50 |
| Max Rated Voltage | Vmp [V] | 45.41 | 43.14 | 45.50 | 43.23 | 45.60 | 43.32 | 45.69 | 43.41 | 45.78 | 43.49 | 45.85 | 43.56 | 45.94 | 43.64 |
| Max Rated Current | Imp [A] | 10.13 | 8.04 | 10.22 | 8.11 | 10.31 | 8.18 | 10.40 | 8.25 | 10.49 | 8.32 | 10.58 | 8.39 | 10.67 | 8.47 |

STC :- Irradiance 1000W/m², Cell Temperature 25°C and AM 1.5
 NMOT :- 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) | 460 | 465 | 470 | 475 | 480 | 485 | 490 |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| 10% | Maximum Power (Pmax) | 506 | 512 | 517 | 523 | 528 | 534 | 539 |
| | Module Efficiency (%) | 21.56% | 21.79% | 22.03% | 22.26% | 22.50% | 22.73% | 22.97% |
| 20% | Maximum Power (Pmax) | 552 | 558 | 564 | 570 | 576 | 582 | 588 |
| | Module Efficiency (%) | 23.52% | 23.78% | 24.03% | 24.29% | 24.54% | 24.80% | 25.05% |
| 30% | Maximum Power (Pmax) | 598 | 605 | 611 | 618 | 624 | 631 | 637 |
| | Module Efficiency (%) | 25.48% | 25.76% | 26.03% | 26.31% | 26.59% | 26.87% | 27.14% |

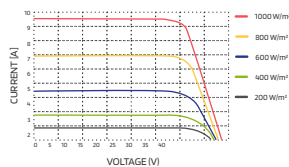
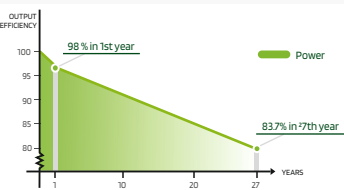
*Power gain from rear side depends upon the ground Reflectance & Bifaciality factor.

PACKAGING CONFIGURATION

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

WARRANTY

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



Solar is the new Green!