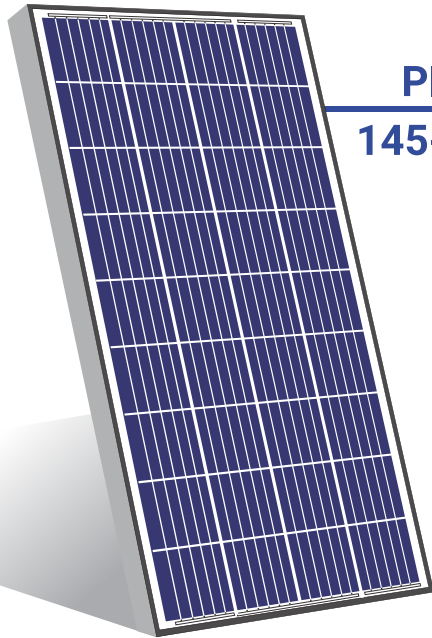


# Poly Crystalline PV Modules



**PIX P2 36**  
**145-180 Wp**



Power Tolerance  
**+4.99Wp**



Efficiency upto  
**17.97 %**



Module Warranty  
**10 Years**



Output Warranty  
**25 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 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



IEC (International Electrotechnical Commission)

- IEC 61215-1:2016
- IEC 61215-2:2016
- IEC 61730-1:2016
- IEC 61730-2:2016
- IEC TS 62804-1
- IEC 61701 End.2:2011 Severity-6
- IEC 61853-1
- IEC 60904-1

BIS: Bureau of Indian Standards

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

US Certification

- UL 61215-1:2017
- UL 61215-2:2017
- UL 61730-1:2017
- UL 61730-2:2017

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!**

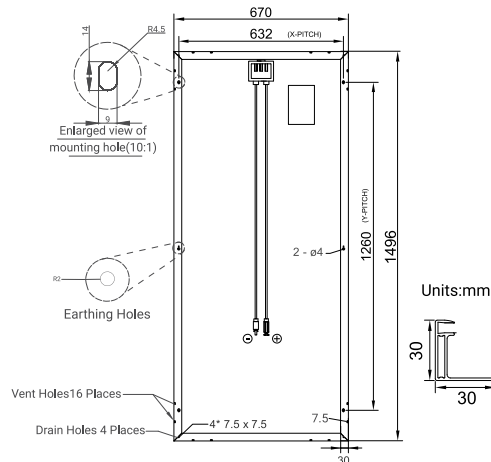
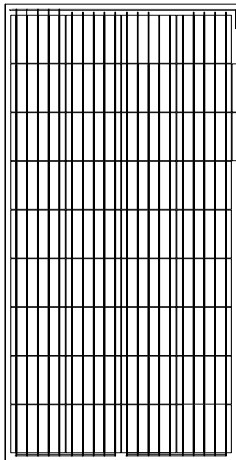
# TECHNICAL DATASHEET

PIX P2 36 145-180

POLY CRYSTALLINE PV MODULES



## Mechanical DIAGRAMS



## Mechanical data

|                                           |                                                                  |
|-------------------------------------------|------------------------------------------------------------------|
| Cells specifications (Number, Type, Size) | 36 (4X9), 5BB Poly Crystalline cells, 157mm X 157mm              |
| Module Dimensions                         | 1496mm X 670mm X 30mm                                            |
| Weight                                    | 10.5kg                                                           |
| Front glass                               | High transmission Low iron tempered glass, AR coated, 3.2 mm (T) |
| Embedding                                 | Low shrinkage PID resistance EVA                                 |
| Back sheet                                | PVDF                                                             |
| Junction box                              | IP67/IP68, 4-Rail                                                |
| Number of diodes                          | 3 Bypass diodes of 15A                                           |
| Cables & Connectors                       | Cable length 1200mm, Ø 4mm <sup>2</sup> & MC-4 Connectors        |
| Frame                                     | Anodized Aluminum Silver Frame (Black available on request)      |

## ELECTRICAL DATA (All data refers to STC (AM 1.5, 1000 W/m<sup>2</sup>, 25°C))

|                       |                       |       |       |       |       |       |       |       |       |
|-----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Peak Power            | P <sub>max</sub> [Wp] | 145   | 150   | 155   | 160   | 165   | 170   | 175   | 180   |
| Module efficiency     | η [%]                 | 14.48 | 14.99 | 15.49 | 15.98 | 16.47 | 16.97 | 17.46 | 17.97 |
| Open-circuit voltage  | V <sub>oc</sub> [V]   | 21.28 | 21.64 | 21.92 | 22.28 | 22.64 | 23.04 | 23.36 | 23.65 |
| Short-circuit current | I <sub>sc</sub> [A]   | 9.04  | 9.14  | 9.23  | 9.33  | 9.43  | 9.52  | 9.63  | 9.72  |
| Max Rated voltage     | V <sub>mp</sub> [V]   | 17.60 | 17.96 | 18.32 | 18.68 | 19.04 | 19.37 | 19.69 | 20.05 |
| Max Rated current     | I <sub>mp</sub> [A]   | 8.25  | 8.36  | 8.47  | 8.57  | 8.67  | 8.78  | 8.89  | 8.98  |

1) STC: 1000 W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.  
2) NOCT: 800 W/m<sup>2</sup> irradiance, 20°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

3) Average relative efficiency reduction of 5% at 200 W/m<sup>2</sup> according to EN 60904-1.

## Electrical Parameters at NOCT

|                       |                       |        |        |        |        |        |        |        |        |
|-----------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Peak Power            | P <sub>max</sub> [Wp] | 106.62 | 110.32 | 114.01 | 117.65 | 121.27 | 124.90 | 128.55 | 132.26 |
| Open-circuit voltage  | V <sub>oc</sub> [V]   | 19.92  | 20.26  | 20.53  | 20.86  | 21.20  | 21.57  | 21.87  | 22.14  |
| Short-circuit current | I <sub>sc</sub> [A]   | 7.23   | 7.31   | 7.38   | 7.46   | 7.55   | 7.62   | 7.70   | 7.77   |
| Rated voltage         | V <sub>mp</sub> [V]   | 16.48  | 16.82  | 17.16  | 17.49  | 17.83  | 18.13  | 18.44  | 18.77  |
| Rated current         | I <sub>mp</sub> [A]   | 6.60   | 6.69   | 6.78   | 6.86   | 6.94   | 7.02   | 7.11   | 7.18   |

## Thermal data

|                                            |               |
|--------------------------------------------|---------------|
| T <sub>c</sub> of open circuit voltage (β) | -0.2885% / °C |
| T <sub>c</sub> short-circuit current (α)   | 0.0576% / °C  |
| T <sub>c</sub> rated power (δ)             | -0.3797% / °C |
| NOCT (Normal Operating Cell Temperature)   | 45°C ± 2°C    |
| Temperature range                          | -40°C to 85°C |

## Permissible operating conditions

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Max. system voltage                | 1500 VDC                                 |
| Max. reverse current / fuse rating | 15 A (IEC) / 20 A (UL)                   |
| Protection class                   | Class A (Safety Class II)                |
| Mechanical load capacity           | 5400 Pa (Snow Load), 2400 Pa (Wind Load) |

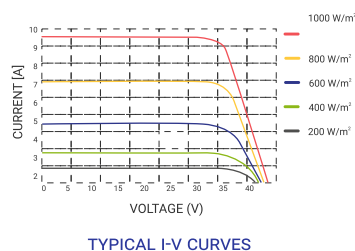
## Packaging Information

|                                      |                              |
|--------------------------------------|------------------------------|
| No. of modules per pallet            | 31                           |
| No. of pallets per container (40 HC) | 28                           |
| Pallet dimensions (in mm)            | 1526 X 996 X 840 (L X W X H) |
| Pallet weight                        | 385.5 kg                     |

## warranty

|                      |                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------|
| Product warranty     | 10 years                                                                                               |
| Performance warranty | Linear power warranty for 25 years with 2.5% for 1st year degradation and 0.65% from year 2 to year 25 |

## characteristic graph



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the new Green!**