

Poly Crystalline DCR PV Modules



PIX PD2 54
220-255 Wp



Power Tolerance
+4.99Wp



Efficiency upto
17.26%



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

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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!**

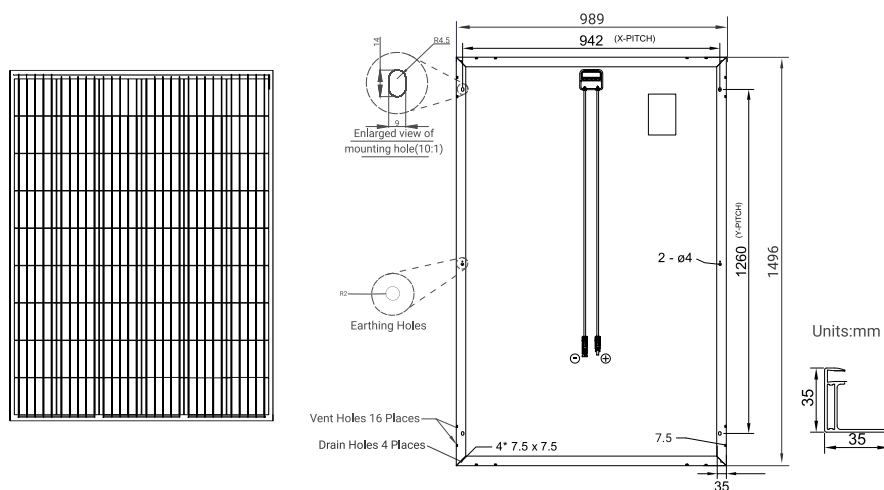
TECHNICAL DATASHEET

PIX PD2 54 220-255

POLY CRYSTALLINE DCR PV MODULES



Mechanical DIAGRAMS



Mechanical data

Cells specifications (Number, Type, Size)	54 (6X9), 5BB Poly Crystalline DCR cells, 157 mm X 157 mm
Dimensions	1496mm X 989mm X 35mm
Weight	17 kg
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 ² & MC-4 Connectors
Frame	Anodized Aluminum Silver Frame (Black available on request)

ELECTRICAL DATA (All Data refers to STC (AM 1.5, 1000 W/m², 25°C))

Peak Power	P _{max} [Wp]	220	225	230	235	240	245	250	255
Module efficiency	η [%]	14.89	15.22	15.57	15.91	16.24	16.58	16.92	17.26
Open-circuit voltage	V _{oc} [V]	32.40	32.67	32.78	33.05	33.43	33.80	34.18	34.45
Short-circuit current	I _{sc} [A]	8.92	9.02	9.11	9.21	9.23	9.30	9.37	9.42
Max Rated voltage	V _{mp} [V]	26.35	26.62	26.95	27.27	27.65	27.97	28.35	28.73
Max Rated current	I _{mp} [A]	8.36	8.46	8.55	8.63	8.69	8.77	8.83	8.89

1) STC: 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
2) NOCT: 800 W/m² irradiance, 20°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

3) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT

Peak Power	P _{max} [Wp]	161.79	165.40	169.20	172.83	176.45	180.16	183.84	187.56
Open-circuit voltage	V _{oc} [V]	30.33	30.59	30.69	30.94	31.29	31.65	32.00	32.26
Short-circuit current	I _{sc} [A]	7.13	7.22	7.29	7.37	7.38	7.44	7.49	7.53
Rated voltage	V _{mp} [V]	24.67	24.92	25.23	25.53	25.89	26.19	26.54	26.90
Rated current	I _{mp} [A]	6.69	6.77	6.84	6.90	6.95	7.02	7.06	7.11

Thermal data

T _c of open circuit voltage (β)	-0.2885% / °C
T _c short-circuit current (α)	0.0576% / °C
T _c 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 V DC
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)

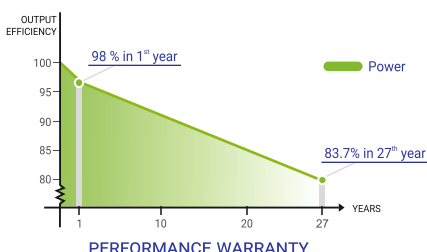
Packaging Information

No. of modules per pallet	31
No. of pallets per container (40 HC)	28
Pallet dimensions (in mm)	1526 X 1151 X 1159 (L X W X H)
Pallet weight	587 kg

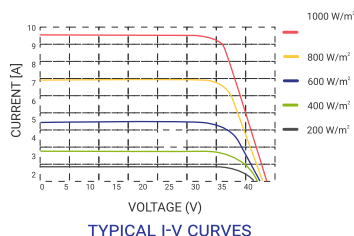
warranty

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



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



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