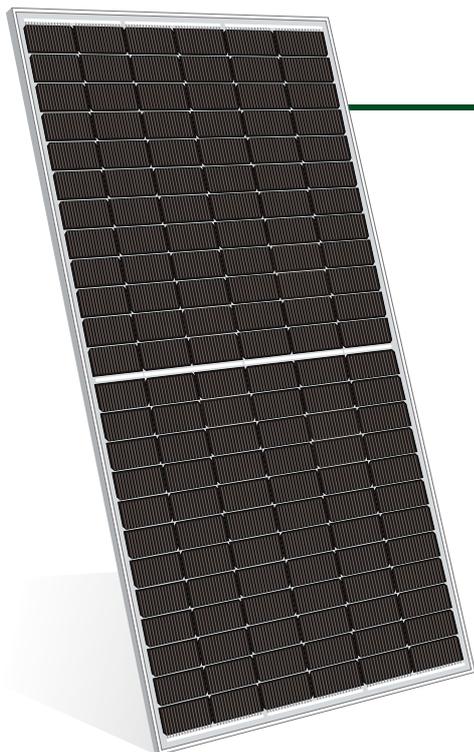


# N Type Topcon PV Module

## Bifacial Glass-to-Glass



**PIX G12R 132 N**  
585 - 635 Wp



Power Tolerance  
**+4.99Wp**



Efficiency Upto  
**23.51 %**



Module Warranty  
**12 Years**



Output Warranty  
**30 Years**

## 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.

## 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

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



**Solar is  
the new Green!**

**PIX G12R 132 N 635**

**G12R 635W 23.51% +4.99Wp ≤1.0%**

**N Type Topcon PV Modules**

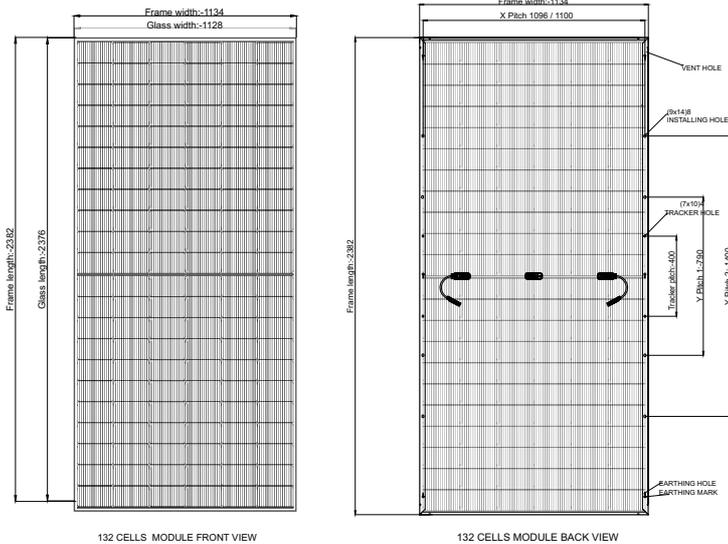
16 BB HALF-CUT CELL MODULE

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**

Length x Width x Thickness (L x W x T)	2382 (L) x 1134 (W) x 35/30 mm (T)
Weight	33±1 Kg
Solar Cells per Module (Units) / Arrangement	132 Cells / 2(11*6)
Solar Cell Type & Size	G12R N-type TOPCon Bifacial
Front Glass (Material / Thickness)	2 mm Low Iron HTAR semi-tempered glass
Back Glass (Material / Thickness)	2 mm Low Iron Printed semi-tempered glass
Encapsulate	PID free & UV Resistant
Junction Box (Protection degree / Material)	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable cross-section & Length	4 mm <sup>2</sup> & 400mm
Frame	Anodized Aluminium Alloy

**MECHANICAL LOADING**

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa

**THERMAL CHARACTERISTICS**

Temp coefficient of current (Isc), (%/°C)	0.046	Operating temperature range	-40 to 85
Temp coefficient of voltage (Voc), (%/°C)	-0.26	Biafaciality factor	80±10
Temp coefficient of power (Pmax), (%/°C)	-0.30	Maximum System voltage	1500 VDC
NOCT (%/°C)	43±2	Maximum Series Fuse Rating	30 A

**ELECTRICAL PARAMETERS AT STC & NOCT**

Test Conditions		STC	NOCT																				
Peak Power	Pmax [Wp]	585	441.68	590	445.45	595	449.23	600	453.00	605	456.78	610	460.55	615	464.33	620	468.10	625	471.88	630	475.65	635	479.43
Module Efficiency	η [%]	21.66	-	21.84	-	22.03	-	22.21	-	22.40	-	22.58	-	22.77	-	22.95	-	23.14	-	23.32	-	23.51	-
Open-Circuit Voltage	Voc [V]	47.70	45.32	47.90	45.51	48.10	45.70	48.30	45.89	48.50	46.08	48.70	46.27	48.90	46.46	49.10	46.65	49.30	46.84	49.50	47.03	49.70	47.22
Short-Circuit Current	Isc [A]	15.67	12.65	15.72	12.69	15.77	12.73	15.82	12.77	15.87	12.81	15.92	12.85	15.97	12.89	16.02	12.93	16.07	12.97	16.12	13.01	16.17	13.05
Max Rated Voltage	Vmp [V]	39.96	37.24	40.14	37.41	40.34	37.60	40.55	37.79	40.75	37.98	40.94	38.16	41.14	38.34	41.34	38.53	41.53	38.71	41.73	38.89	41.92	39.07
Max Rated Current	Imp [A]	14.65	11.84	14.70	11.88	14.75	11.92	14.80	11.96	14.85	12.00	14.90	12.04	14.95	12.08	15.00	12.12	15.05	12.16	15.10	12.20	15.15	12.21

**BIFACIAL OUTPUT-REAR SIDE POWER GAIN**

	Peak Power (STC)	585	590	595	600	605	610	615	620	625	630	635
10%	Maximum Power (Pmax)	643.5	649	654.5	660	665.5	671	676.5	682	687.5	693	698.5
	Module Efficiency (%)	23.82	24.03	24.23	24.43	24.64	24.84	25.04	25.25	25.45	25.66	25.86
15%	Maximum Power (Pmax)	672.75	678.5	684.3	690	695.8	701.5	707.3	713	718.75	724.5	730.25
	Module Efficiency (%)	24.91	25.12	25.33	25.54	25.76	25.97	26.18	26.4	26.61	26.82	27.03
20%	Maximum Power (Pmax)	702	708	714	720	726	732	738	744	750	756	762
	Module Efficiency (%)	25.99	26.21	26.43	26.65	26.88	27.10	27.32	27.54	27.77	27.99	28.21
25%	Maximum Power (Pmax)	731.25	737.5	743.8	750	756.3	762.5	768.8	775	781.25	787.5	793.75
	Module Efficiency (%)	27.07	27.30	27.53	27.77	28.00	28.23	28.46	28.69	28.92	29.15	29.39
30%	Maximum Power (Pmax)	760.5	767	773.5	780	786.5	793	799.5	806	812.5	819	825.5
	Module Efficiency (%)	28.15	28.39	28.64	28.88	29.12	29.36	29.60	29.84	30.08	30.32	30.56

**PACKAGING CONFIGURATION**

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

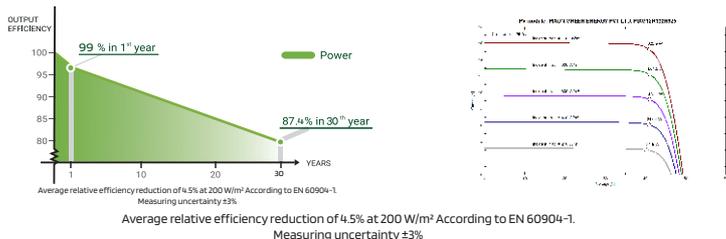
**WARRANTY**

Product Warranty	12 Years
Performance Warranty	30 Year linear power warranty 0.40% Annual degradation over 30 years.

**CERTIFICATIONS**



\*Note: These certificates are under process.



**Solar is the new Green!**