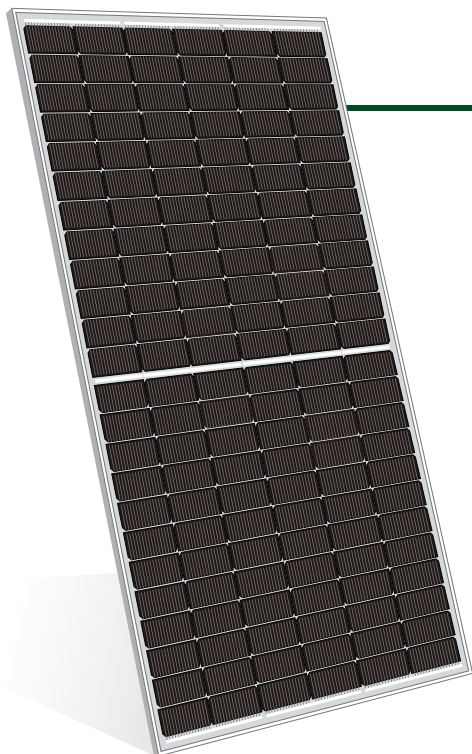


N Type Topcon PV Module

Bifacial Glass-to-Glass



PIX G12R 120 N
525 - 580 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
23.52 %



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 1GW 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.

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 120 N 580

G12R

580W

23.52%

+4.99Wp

≤1.0%

N Type Topcon PV Modules

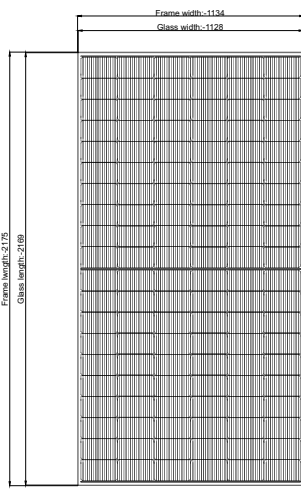
16 BB HALF-CUT CELL MODULE

MAXIMUM POWER OUTPUT

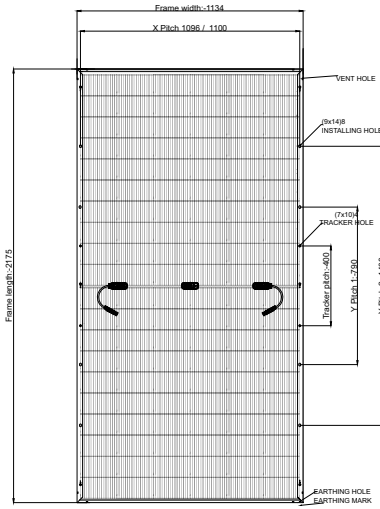
MAXIMUM EFFICIENCY

POWER TOLERANCE

FIRST YEAR POWER DEGRADATION



120 Cells solar module Front view
Scale 1:1



120 Cells Solar module Back view
Scale 1:1

*All Dimensions are in mm.

*Cable Length may vary based on Requirements.

MECHANICAL DATA

Length x Width x Thickness (L x W x T)	2175 mm (L) x 1134 mm (W) x 35/30 mm (T)
Weight	31±1 Kg
Solar Cells per Module (Units) / Arrangement	120 Cells / 2(10*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 ² & 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	Bifaciality 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	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT						
Peak Power	Pmax [Wp]	525	396.38	530	400.15	535	403.93	540	407.7	545	411.48	550	415.25	555	419.03	560	422.8	565	426.58	570	430.35	575	434.13	580	437.90
Module Efficiency	η [%]	21.29		21.49		21.69		21.89		22.10		22.30		22.50		22.70		22.91		23.11		23.31		23.52	
Open-Circuit Voltage	Voc [V]	43.51	41.33	43.7	41.52	43.9	41.71	44.1	41.9	44.3	42.09	44.5	42.28	44.7	42.47	44.9	42.66	45.1	42.85	45.3	43.04	45.5	43.23	45.7	43.42
Short-Circuit Current	Isc [A]	15.61	12.6	15.66	12.64	15.71	12.68	15.76	12.72	15.81	12.76	15.86	12.8	15.91	12.84	15.96	12.88	16.01	12.92	16.06	12.96	16.11	13	16.16	13.04
Max Rated Voltage	Vmp [V]	36.16	33.7	36.34	33.87	36.52	34.04	36.7	34.2	36.88	34.37	37.06	34.54	37.24	34.71	37.42	34.88	37.6	35.04	37.78	35.21	37.94	35.36	38.12	35.53
Max Rated Current	Imp [A]	14.52	11.73	14.59	11.79	14.65	11.84	14.72	11.89	14.78	11.94	14.84	11.99	14.91	12.05	14.97	12.1	15.03	12.14	15.09	12.19	15.16	12.25	15.22	12.3

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	Peak Power (STC)	525	530	535	540	545	550	555	560	565	570	575	580
10%	Maximum Power (Pmax)	577.5	583	588.5	594	599.5	605	610.5	616	621.5	627	632.5	638
	Module Efficiency (%)	25.93	26.18	26.42	26.67	26.92	27.16	27.41	27.66	27.91	28.15	28.40	28.65
15%	Maximum Power (Pmax)	603.75	609.5	615.25	621	626.75	632.5	638.25	644	649.75	655.5	661.25	667
	Module Efficiency (%)	27.11	27.37	27.62	27.88	28.14	28.40	28.66	28.92	29.17	29.43	29.69	29.95
20%	Maximum Power (Pmax)	630	636	642	648	654	660	666	672	678	684	690	696
	Module Efficiency (%)	28.29	28.56	28.83	29.10	29.36	29.63	29.90	30.17	30.44	30.71	30.98	31.25
25%	Maximum Power (Pmax)	656.25	662.5	668.75	675	681.25	687.5	693.75	700	706.25	712.5	718.75	725
	Module Efficiency (%)	29.47	29.75	30.03	30.31	30.59	30.87	31.15	31.43	31.71	31.99	32.27	32.55
30%	Maximum Power (Pmax)	682.5	689	695.5	702	708.5	715	721.5	728	734.5	741	747.5	754
	Module Efficiency (%)	30.64	30.94	31.23	31.52	31.81	32.10	32.40	32.69	32.98	33.27	33.56	33.85

PACKAGING CONFIGURATION

Modules per Box	31/36 Pieces
Modules per 40' Container	620/720 Pieces

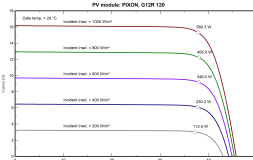
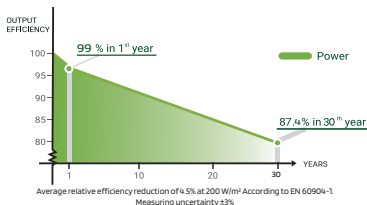
WARRANTY

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.



Average relative efficiency reduction of 4.5% at 200 W/m² According to EN 60904-1. Measuring uncertainty ±3%.



Solar is the new Green!