

N Type Topcon PV Module

Bifacial Glass-to-Glass DCR



PIX 156 HT
615-650 Wp DCR



Power Tolerance
+4.99Wp



Efficiency Upto
23.25 %



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

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



**Solar is
the new Green!**

PIX 156 HT 650 D M10/M10R 650W 23.25% +4.99Wp ≤1.0%

N Type Topcon PV Modules

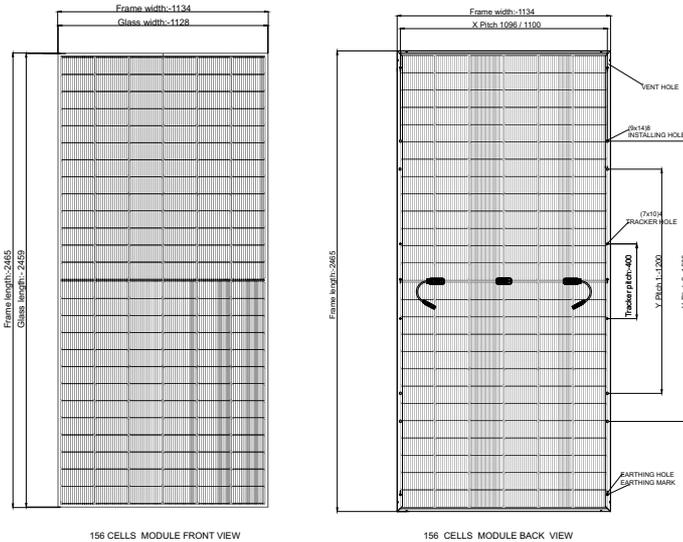
16 BB HALF-CUT CELL MODULE

MAXIMUM POWER OUTPUT

MAXIMUM EFFICIENCY

POWER TOLERANCE

FIRST YEAR POWER DEGRADATION



156 CELLS MODULE FRONT VIEW

156 CELLS MODULE BACK VIEW

*All Dimensions are in mm.

*Cable Length may vary based on Requirements.

MECHANICAL DATA

Length x Width x Thickness (L x W x T)	2465 mm (L) x 1134 mm (W) x 30/35 mm (T)
Weight	34.5±1 Kg
Solar Cells per Module (Units) / Arrangement	156 cells / 2(13*6)
Solar Cell Type & Size	M10/M10R 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														
Peak Power	Pmax [Wp]	615	464.33	620	468.10	625	471.88	630	475.65	635	479.43	640	483.20	645	486.98	650	490.75
Module Efficiency	η [%]	22.00	-	22.18	-	22.36	-	22.54	-	22.72	-	22.90	-	23.07	-	23.25	-
Open-Circuit Voltage	Voc [V]	56.55	53.72	56.71	53.87	56.88	54.04	57.02	54.17	57.18	54.32	57.33	54.46	57.49	54.62	57.66	54.78
Short-Circuit Current	Isc [A]	13.78	11.12	13.83	11.16	13.88	11.20	13.94	11.25	13.99	11.29	14.05	11.34	14.11	11.39	14.17	11.44
Max Rated Voltage	Vmp [V]	47.27	44.06	47.44	44.21	47.60	44.36	47.73	44.48	47.89	44.63	48.01	44.75	48.17	44.89	48.26	44.98
Max Rated Current	Imp [A]	13.01	10.51	13.07	10.56	13.13	10.61	13.20	10.67	13.26	10.71	13.33	10.77	13.39	10.82	13.48	10.89

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	Peak Power (STC)	615	620	625	630	635	640	645	650
12%	Maximum Power (Pmax)	688.8	694.4	700	705.6	711.2	716.8	722.4	728
	Module Efficiency (%)	24.64	24.84	25.04	25.24	25.44	25.64	25.84	26.04
15%	Maximum Power (Pmax)	707.25	713	718.75	724.5	730.25	736	741.75	747.5
	Module Efficiency (%)	25.30	25.51	25.71	25.92	26.12	26.33	26.54	26.74
20%	Maximum Power (Pmax)	738	744	750	756	762	768	774	780
	Module Efficiency (%)	26.40	26.62	26.83	27.05	27.26	27.47	27.69	27.90
25%	Maximum Power (Pmax)	768.75	775	781.25	787.5	793.75	800	806.25	812.5
	Module Efficiency (%)	27.50	27.73	27.95	28.17	28.40	28.62	28.84	29.07

PACKAGING CONFIGURATION

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

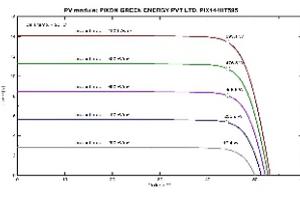
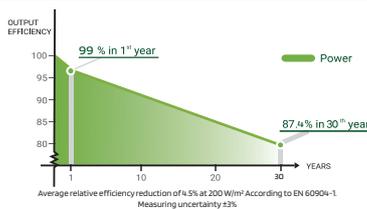
WARRANTY

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.



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



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