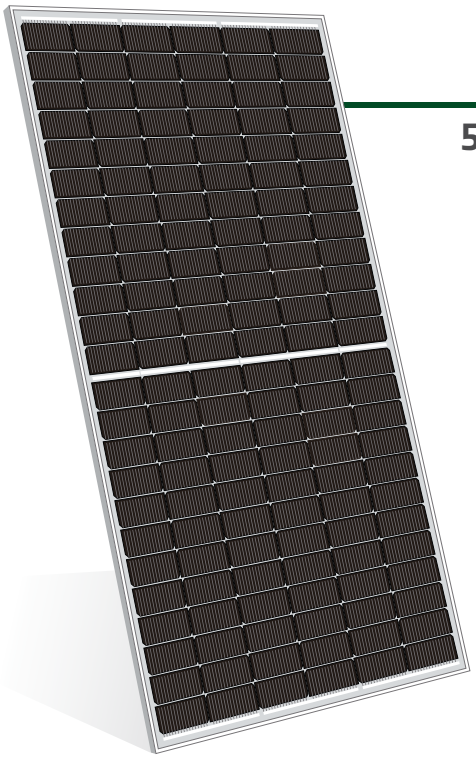
N Type Topcon PV Module

Bifacial Glass-to-Glass DCR

PIXON
Redefining Solar



PIX 144 HT

555-605 Wp DCR

Power Tolerance
+4.99Wp

Efficiency Upto
23.42 %

Module Warranty
12 Years

Output Warranty
30 Years

KEY FEATURES

- **PID Resistance** with long term reliability
- **Better Performance** even at low irradiation
- Maximum System Voltage: **1500 V DC**
- **100%** Insulation Hi-Pot Test
- 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, Floating Solar, 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 state-of-the-art manufacturing facilities, including a 1.6 GW+ solar module production capacity and a 1 GW encapsulant film manufacturing line housed in a cleanroom environment. As the world embraces the solar energy revolution, PIXON envisions providing efficient solar energy products and solutions globally, thereby enhancing and contributing to global climate sustainability.

CERTIFICATIONS

ALMM APPROVED

IEC (International Electrotechnical Commission
- IEC 61215-1:2023
- IEC 61215-1-1:2023
- IEC 61215-2:2023
- IEC 61730-1:2016
- IEC 61730-2:2016
- IEC TS 61701 Ed.3 :2020 Severity-6
- IEC TS 62804-1:2015
- IEC 61853-1:2011
- IEC 61853-2:2016
- IEC 62716:2013
- IEC 60068-2-68:1994-08
- IEC TS 63342:2022

BIS: Bureau of Indian Standards
- IS 14286:2010
- IS 61730-1:2004
- IS 61730-2:2004

ISO Certification
- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018(OHSAS)

CE Mark Testing & Certification

CLASS II

*Note : These certificates are under process.

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

A Venture By
MARWADI GROUP

D/PIXHT/144/220426/E-01-01

PIXON
Redefining Solar

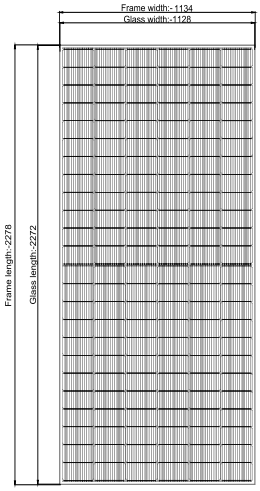
TECHNICAL DATASHEET

Topcon Glass To Glass

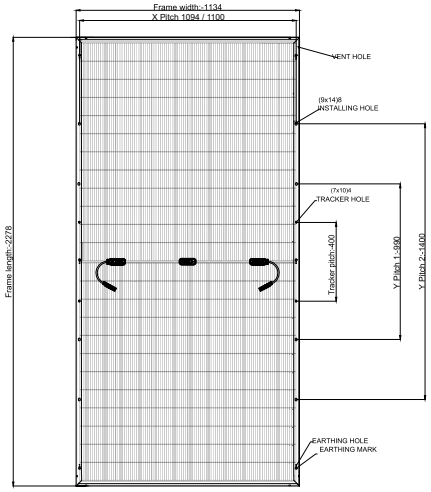
PIX 144 HT 605 DCR | M10/M10R | 605W | 23.42% | +4.99Wp | ≤1.0%

N Type Topcon PV Modules

16 BB HALF-CUT CELL MODULE	MAXIMUM POWER OUTPUT	MAXIMUM EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION



144 CELLS MODULE FRONT VIEW



144 CELLS MODULE BACK VIEW

35mm frame - 1100mm X Pitch
30mm frame- 1094 mm X Pitch

*All Dimensions are in mm.
*Cable Length may vary based on Requirements.

MECHANICAL DATA

Length x Width x Thickness (L x W x T)	2278 mm (L) x 1134 mm (W) x 30/35 mm (T)
Weight	32±1 Kg
Solar Cells per Module (Units) / Arrangement	144 cells / 2(12*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 & 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 & 300mm
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	1500/2000 VDC
NOCT (%/°C)	43±2	Maximum Series Fuse Rating	35 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	STC	NOCT	STC	NOCT
Peak Power	Pmax [Wp]	555	419.03	560	422.80	565	426.58	570	430.35	575	434.13	580	437.90	585	441.68	590	445.45	595	449.23	600	453.00	605	456.78
Module Efficiency	η [%]	21.48	-	21.68	-	21.87	-	22.07	-	22.26	-	22.45	-	22.65	-	22.84	-	23.03	-	23.23	-	23.42	-
Open-Circuit Voltage	Voc [V]	51.50	48.93	51.70	49.12	51.90	49.31	52.10	49.50	52.30	49.69	52.50	49.88	52.70	50.07	52.90	50.26	53.10	50.45	53.30	50.64	53.50	50.83
Short-Circuit Current	Isc [A]	13.62	10.99	13.68	11.04	13.75	11.10	13.81	11.14	13.87	11.19	13.93	11.24	13.99	11.29	14.05	11.34	14.11	11.39	14.17	11.44	14.23	11.48
Max Rated Voltage	Vmp [V]	43.27	40.33	43.42	40.47	43.57	40.61	43.71	40.74	43.86	40.88	44.01	41.02	44.15	41.15	44.29	41.28	44.44	41.42	44.61	41.58	44.78	41.73
Max Rated Current	Imp [A]	12.84	10.37	12.91	10.43	12.97	10.48	13.04	10.54	13.11	10.59	13.18	10.65	13.25	10.71	13.32	10.76	13.39	10.82	13.45	10.87	13.52	10.92

BIFACIAL OUTPUT-REARSIDE POWER GAIN

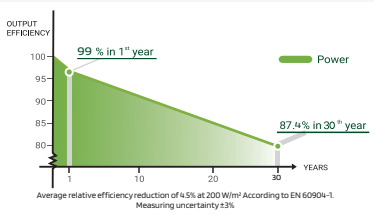
	Peak Power (STC)	555	560	565	570	575	580	585	590	595	600	605
12%	Maximum Power (Pmax)	621.6	627.2	632.8	638.4	644	649.6	655.2	660.8	666.4	672	677.6
	Module Efficiency (%)	24.06	24.28	24.50	24.71	24.93	25.15	25.36	25.58	25.80	26.01	26.23
15%	Maximum Power (Pmax)	638.25	644	649.75	655.5	661.25	667	672.75	678.5	684.25	690	695.75
	Module Efficiency (%)	24.71	24.93	25.15	25.37	25.60	25.82	26.04	26.27	26.49	26.71	26.93
20%	Maximum Power (Pmax)	666	672	678	684	690	696	702	708	714	720	726
	Module Efficiency (%)	25.78	26.01	26.25	26.48	26.71	26.94	27.18	27.41	27.64	27.87	28.10
25%	Maximum Power (Pmax)	693.75	700	706.25	712.5	718.75	725	731.25	737.5	743.75	750	756.25
	Module Efficiency (%)	26.86	27.10	27.34	27.58	27.82	28.07	28.31	28.55	28.79	29.03	29.28

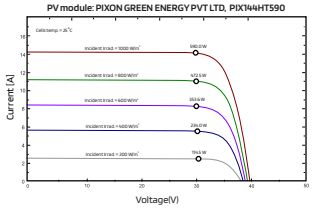
PACKAGING CONFIGURATION

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.





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

CERTIFICATIONS

IR-72004570

*Note : These certificates are under process.

BUILT TO POWER TOMORROW

D/PIXHT/144/220426/E-01-01