

TXM6-NH144 Series



Techlan Solar 9BB HALF-CELL
Monocrystalline PERC PV Module

390W | 395W | 400W | 405W | 410W | 415W



Excellent cells efficiency

9BB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and morning



Anti PID

Limited power degradation caused by PID effect is guaranteed under strict testing condition for mass production



High wind and snow resistance

■ 5400 Pa snow load ■ 2400 Pa wind load



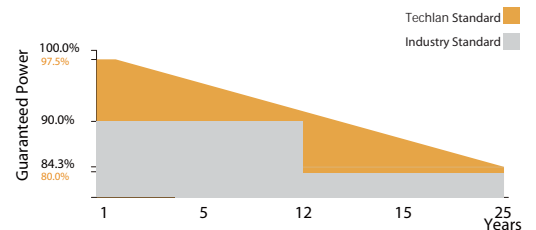
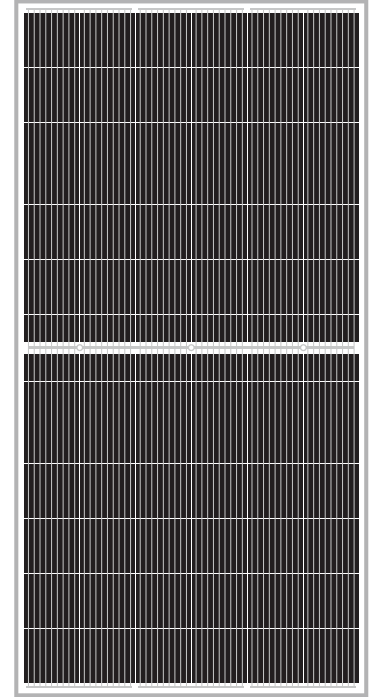
25 years power warranty

After 25 years our solar panel keeps at least 80% of its initial power output



Higher lifetime Power Yield

2.5% first year degradation, 0.55% linear degradation



12 years product warranty
25 years output warranty



0.55% Annual Degradation
over 25 years



IEC61215/IEC61730/IEC61701/IEC62716/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System

PT. Techlan Solar Indonesia

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ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	390	395	400	405	410	415
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.60	40.80	41.00	41.20	41.40	41.60
Maximum Power Current Imp(A)	9.61	9.69	9.76	9.84	9.91	9.98
Open Circuit Voltage Voc(V)	48.70	48.90	49.10	49.30	49.50	49.70
Short Circuit Current Isc(A)	10.10	10.16	10.22	10.28	10.34	10.40
Module Efficiency (%)	19.23	19.48	19.72	19.97	20.22	20.46

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5
 *Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	290.50	294.40	297.90	301.70	305.40	308.50
Maximum Power Voltage Vmp(V)	37.80	38.10	38.30	38.50	38.70	38.90
Maximum Power Current Imp(A)	7.68	7.73	7.78	7.83	7.89	7.92
Open Circuit Voltage Voc(V)	45.40	45.60	45.80	45.90	46.10	46.30
Short Circuit Current Isc(A)	8.16	8.20	8.25	8.30	8.35	8.40

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6×24)
Module dimension	2024×1002×35 mm (With Frame)
Weight	22.5 kg
Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm (With Connectors)
Connectors	MC4-compatible

TEMPERATURE RATINGS WORKING CONDITIONS

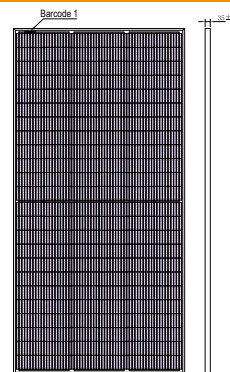
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.36%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	20 A
Temperature coefficient of Isc	0.05%/°C	Maximum load(snow/wind)	5400 Pa / 2400 Pa

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection
 *Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

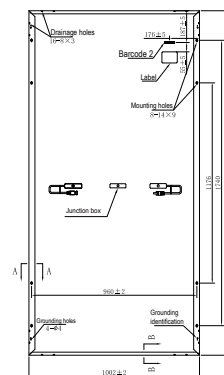
PACKAGING CONFIGURATION

Piece/Box	31
Piece/Container ^(40'HQ)	682
Piece/Container ^(with additional small package)	/

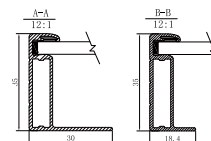
DIMENSIONS(MM)



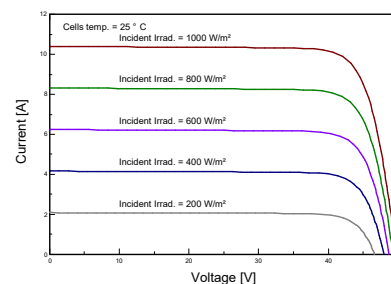
Front View



Back View



I-V CURVES OF PV MODULE(415W)



P-V CURVES OF PV MODULE(415W)

