

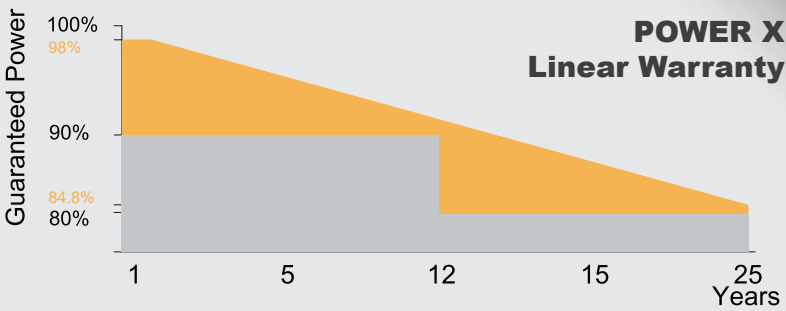
PX1-435 -460W

166mm 144Cells MBB PV Solar Module

21.16%
MAXIMUM EFFICIENCY

0.55%
YEARLY DEGRADATION

PERC HALF CUT CELL



12 Years
Material & Craft
Quality assurance

12 Years
90% Output
Power guarantee

25 Years
80% Output
Power guarantee



Excellent Low-light Performance



100% Inspection Guarantee Reliability



9BB technology reduce the distance between busbars and finger grid line which is benefit to power increase



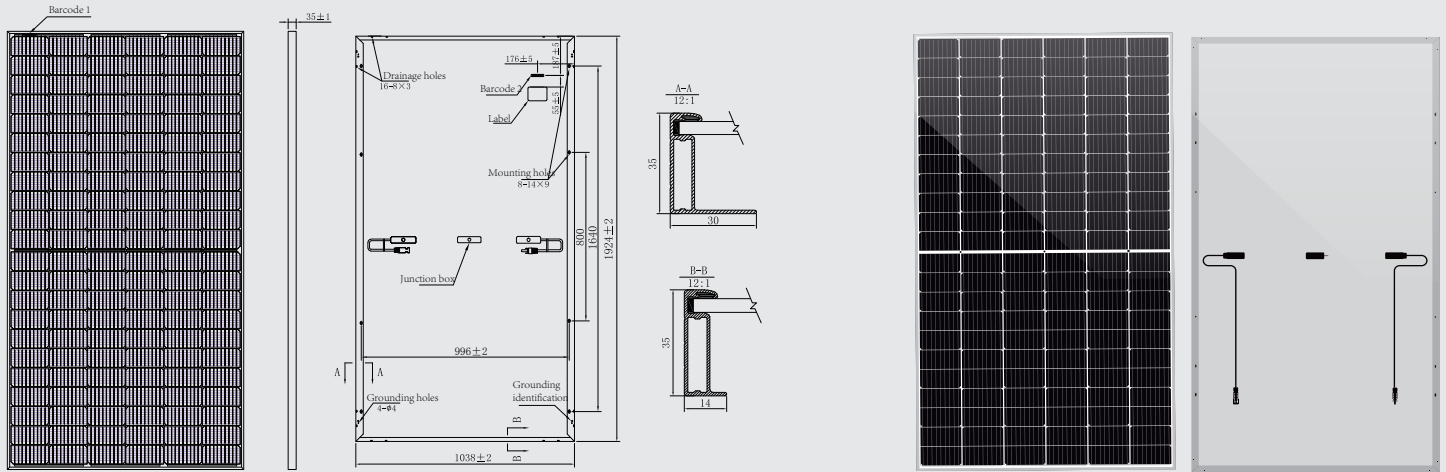
High Density Packaging



Strengthened Mechanical Load

POWER X





Front View

Back View

*Remark: customized frame color and cable length available upon request

Electrical Characteristics (STC/NOCT)

Module Type	PX1-435		PX1-440		PX1-445		PX1-450		PX1-455		PX1-460	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	435	325.20	440	328.90	445	332.70	450	336.10	455	339.80	460	343.60
Open Circuit Voltage - Voc(V)	49.70	46.40	49.90	46.60	50.10	46.70	50.30	46.90	50.50	47.10	50.70	47.30
Short- Circuit Current - Isc(A)	11.26	9.09	11.33	9.15	11.40	9.21	11.46	9.25	11.53	9.31	11.60	9.37
Voltage at Pmax -Vmp(V)	40.80	38.10	41.00	38.20	41.20	38.40	41.40	38.60	41.60	38.80	41.80	39.00
Current at Pmax - Imp(A)	10.67	8.54	10.74	8.60	10.81	8.66	10.87	8.70	10.94	8.76	11.01	8.81
Module Efficiency -ηm(%)	20.01 /		20.24 /		20.47 /		20.70 /		20.93 /		21.16 /	
Power Tolerance(W)	(0, +4.99W)											
Maximum System Voltage(V)	1500Vdc (IEC / UL)											
Maximum Series Fuse Rating (A)	20A											

STC : Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5 NOCT : Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	2094×1038×35 mm (With Frame)
Weight	23.5 ±1.0 kg
Solar Cells	Mono crystalline 166mm (6×24)
Front Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Output Cables	4 mm ² , 350 mm (With Connectors)
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

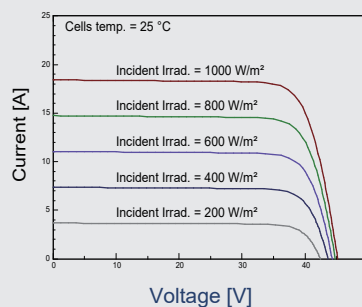
Temperature Characteristics

Pmax Temperature Coefficient	-0.36%/°C
Voc Temperature Coefficient	-0.29%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40°C ~ +85°C
Nominal Operating Cell Temperature(NOCT)	44°C ±2°C

Packing Configuration

2094×1038×35 mm (With Frame)	
Container	40'HQ
Pieces per Pallet	31
Pallets per Container	22
Pieces per Container	682

I-V CURVES OF PV MODULE(445W)



P-V CURVES OF PV MODULE(445W)

