



MBB-60M-182

445-460Watt

MONO-FACIAL MODULE

P-Type

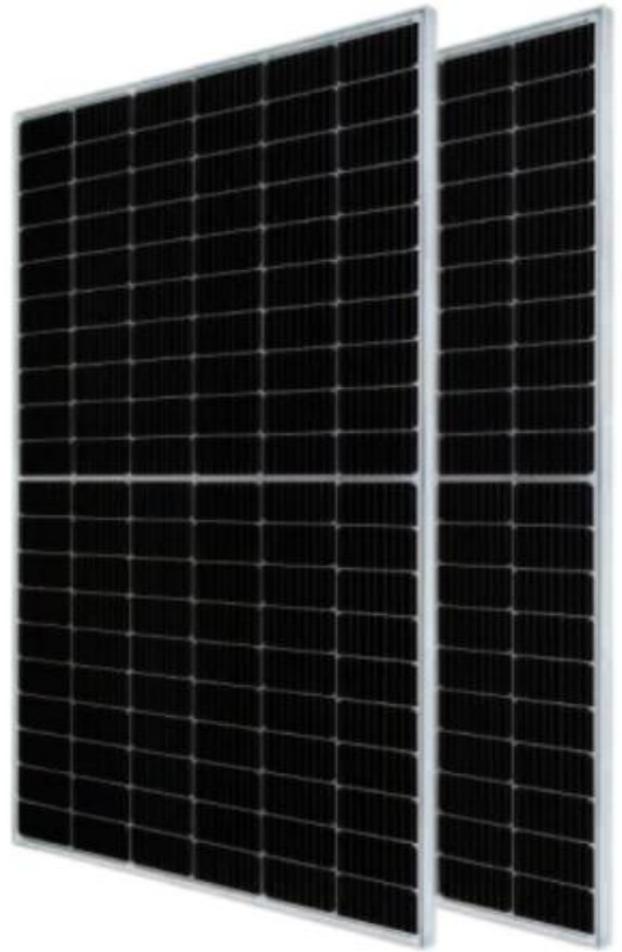
Positive power tolerance of 0~+3%

IEC 61215, IEC 61730

ISO 9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems



Key Features



Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



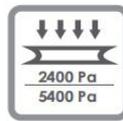
Longer Life-time Power Yield

0.55% annual power degradation and 25 year linear power warranty.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

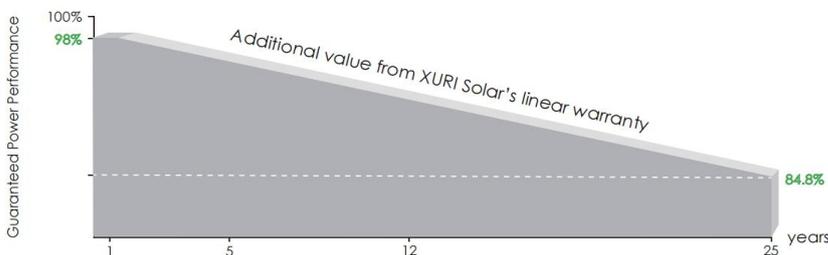


Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



LINEAR PERFORMANCE WARRANTY

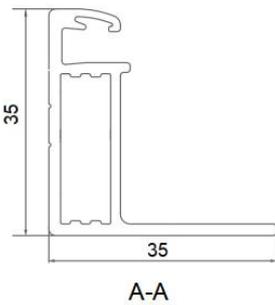
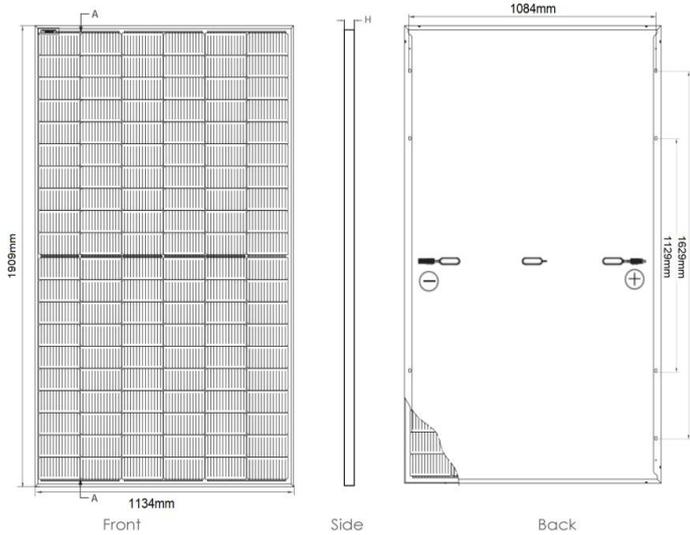


12 Year Product Warranty

25 Year Linear Power Warranty

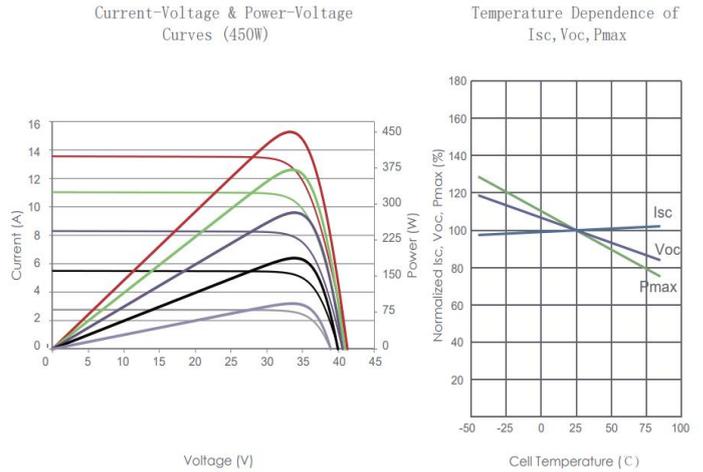
0.55% Annual Degradation Over 25 years

Engineering Drawings



Length: $\pm 2\text{mm}$
 Width: $\pm 2\text{mm}$
 Height: $\pm 1\text{mm}$
 Row Pitch: $\pm 2\text{mm}$

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type:	P type Mono-crystalline 182x91
No. of cells:	120 (6x20)Pcs
Dimensions:	1909x1134x35mm
Weight:	23.5Kg
Front Glass:	3.2mm, Anti-Reflection Coating
Frame:	Anodized Aluminium Alloy
Junction Box:	IP68 Rated

Output Cables: 4mm²(TUV) Length:(+)300mm, (-)300mm or Customized Length

Packaging Configuration

(Two pallets = One stack)

Packaging Configuration : 62pcs / box, 744pcs / 40'HQ Container

SPECIFICATIONS

Module Type	XRM445W-60-182		XRM450W-60-182		XRM455W-60-182		XRM460W-60-182	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	445Wp	331Wp	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp
Maximum Power Voltage (Vmp)	33.82V	31.56V	33.91V	31.73V	34.06V	31.91V	34.20V	32.07V
Maximum Power Current (Imp)	13.16A	10.49A	13.27A	10.55A	13.36A	10.61A	13.45A	10.66A
Open-circuit Voltage (Voc)	41.11V	38.79V	41.18V	38.87V	41.33V	39.01V	41.48V	39.15V
Short-circuit Current (Isc)	13.79A	11.14A	13.85A	11.19A	13.93A	11.25A	14.01A	11.33A
Module Efficiency STC (%)	20.56%		20.78%		21.01%		21.25%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.35% /°C							
Temperature coefficients of Voc	-0.28% /°C							
Temperature coefficients of Isc	0.048% /°C							
Nominal operating cell temperature (NOCT)	45±2°C							

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

*NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

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Specific ations included in this datasheet are subject to change without notice.

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XRM445-460M-60-182