



MBB-54M-182

400-415Watt

MONO-FACIAL MODULE

P-Type

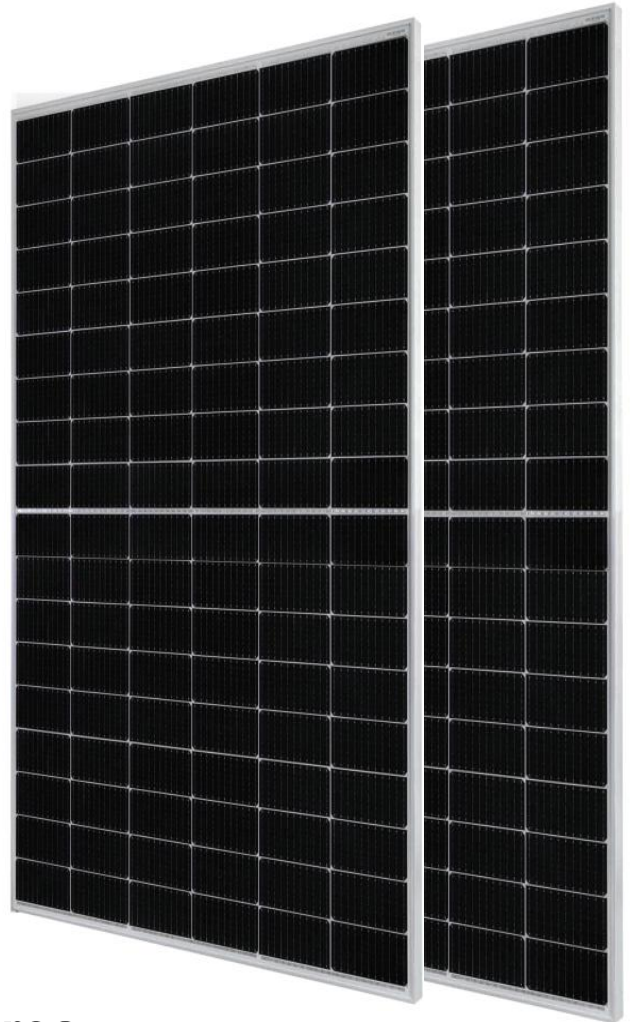
Positive power tolerance of 0~+3%

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.



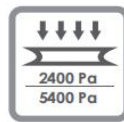
Longer Life-time Power Yield

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



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

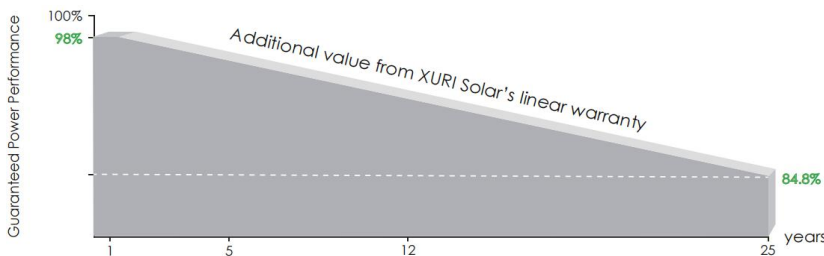


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

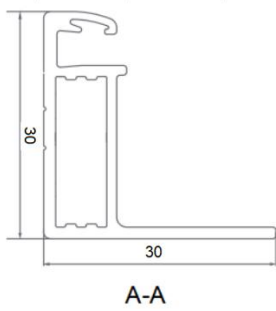
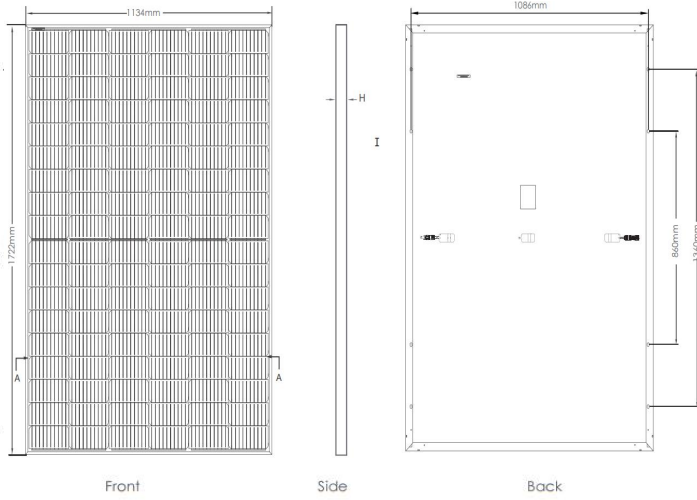


12 Year Product Warranty

25 Year Linear Power Warranty

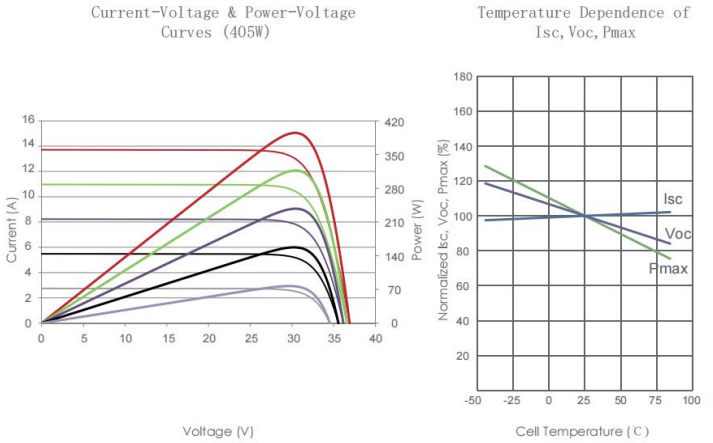
0.55% Annual Degradation Over 25 years

Engineering Drawings



Length: ± 2 mm
 Width: ± 2 mm
 Height: ± 1 mm
 Row Pitch: ± 2 mm

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type:	P type Mono-crystalline 182x91
No. of cells:	108 (6x18)Pcs
Dimensions:	1722x1134x30mm
Weight:	21.5Kg
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 : 72pcs / box, 936pcs / 40'HQ Container

SPECIFICATIONS

Module Type	XRM400W-54-182		XRM405W-54-182		XRM410W-54-182		XRM415W-54-182	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	400Wp	301Wp	405Wp	305Wp	410Wp	305Wp	415Wp	309Wp
Maximum Power Voltage (Vmp)	30.41V	28.56V	30.52V	28.56V	30.62V	28.72V	30.79V	28.88V
Maximum Power Current (Imp)	13.15A	10.55A	13.27A	10.55A	13.39A	10.62A	13.48A	10.69A
Open-circuit Voltage (Voc)	36.98V	34.98V	37.06V	34.98V	37.14V	35.05V	37.31V	35.21V
Short-circuit Current (Isc)	13.76A	11.19A	13.85A	11.19A	13.92A	11.24A	14.01A	11.32A
Module Efficiency STC (%)	20.48%		20.74%		21.00%		21.26%	
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	-0.275% /°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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XRM400-415W-54-182