



# MBB-66M-210

## 650-665 Watt

### 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.



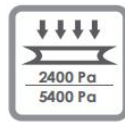
### Longer Life-time Power Yield

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



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

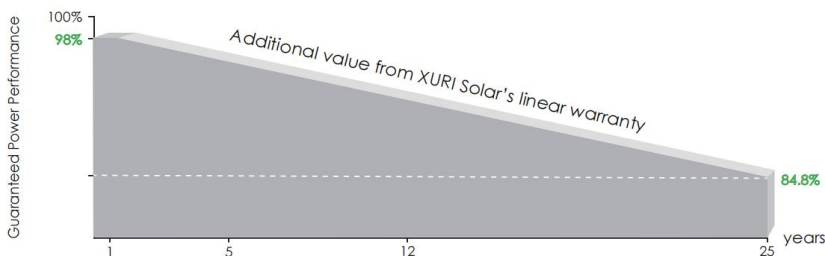


### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

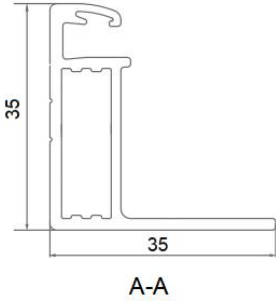
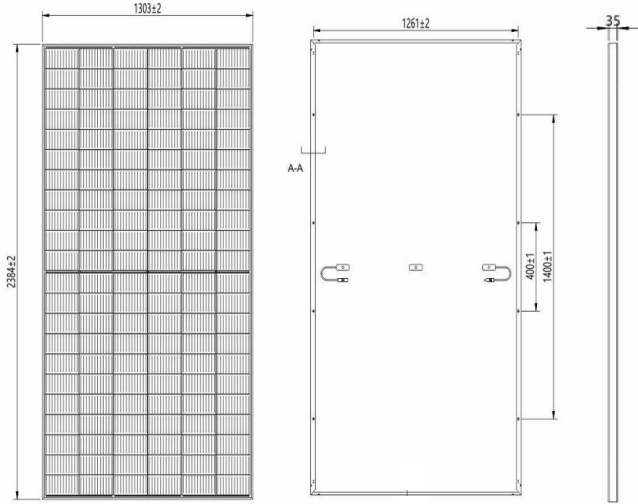


12 Year Product Warranty

25 Year Linear Power Warranty

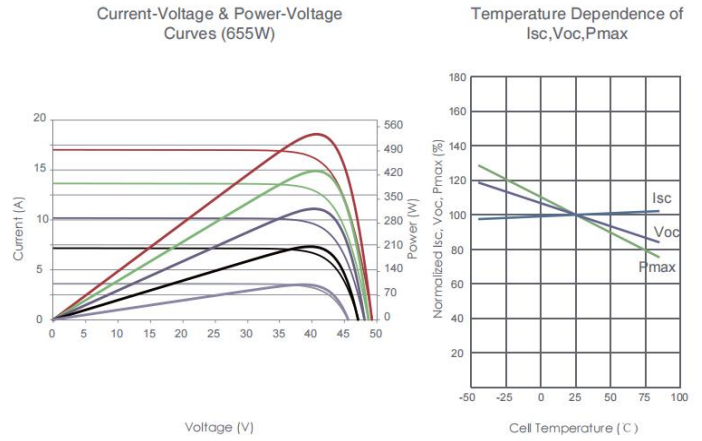
0.55% Annual Degradation Over 25 years

# Engineering Drawings



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

# Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type:	P type Mono-crystalline 210X105mm
No. of Cells:	132 (6×22)Pcs
Dimensions:	2384x1303x35mm
Weight:	34Kg
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

Modules/Pallet: 31 Pieces    Modules/40'Container: 18 Pallets  
 Packaging Configuration: 18 Pallets, Total=31x18=558 Pieces

## SPECIFICATIONS

Module Type	XRM650W-66-210		XRM655W-66-210		XRM660W-66-210		XRM665W-66-210	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	650Wp	491Wp	655Wp	495Wp	660Wp	499Wp	665Wp	503Wp
Maximum Power Voltage (Vmp)	37.65V	35.05V	37.81V	35.05V	38.01V	35.24V	38.21V	35.42V
Maximum Power Current (Imp)	17.26A	14.13A	17.33A	14.13A	17.37A	14.16A	17.41A	14.19A
Open-circuit Voltage (Voc)	45.58V	42.28V	45.78V	42.28V	45.98V	42.67V	46.18V	42.86V
Short-circuit Current (Isc)	18.19A	14.93A	18.21A	14.93A	18.26A	14.97A	18.31A	15.01A
Module Efficiency STC (%)	20.92%		21.09%		21.24%		21.41%	
Operating Temperature( °C)	-40°C~+85°C							
Maximum system voltage	1500VDC							
Maximum series fuse rating	30A							
Power tolerance	0~+3%							
Temperature coefficients of	-0.36% /°C							
Temperature coefficients of Voc	-0.28% /°C							
Temperature coefficients of Isc	0.05% /°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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