

## MBB-60M-210

### 595-610 Watt

### MONO-FACIAL MODULE

#### P-Type

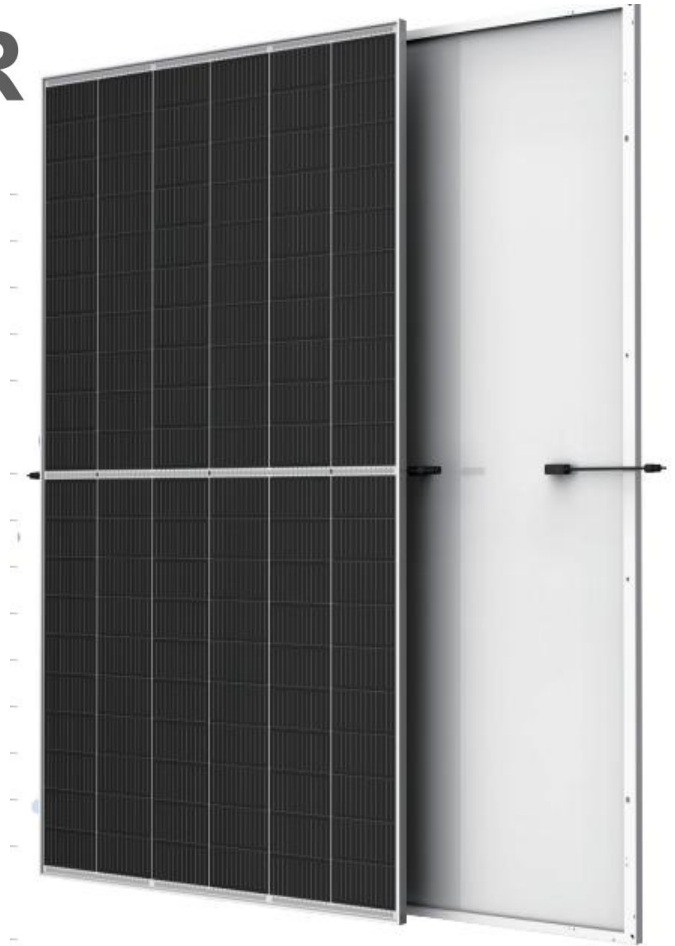
Positive power tolerance of 0~+3%

IEC 61215, IEC 61730, UL61215, UL61730

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.



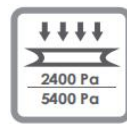
#### Longer Life-time Power Yield

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



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

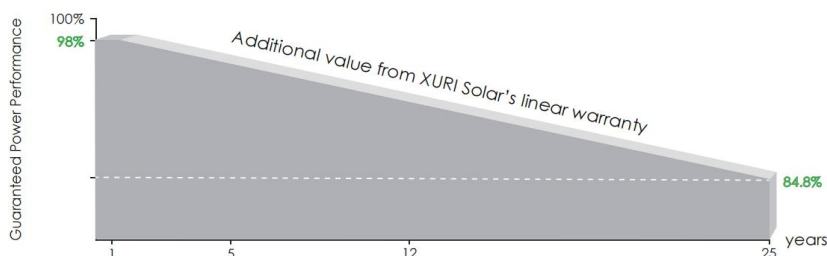


#### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

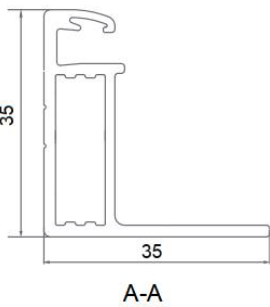
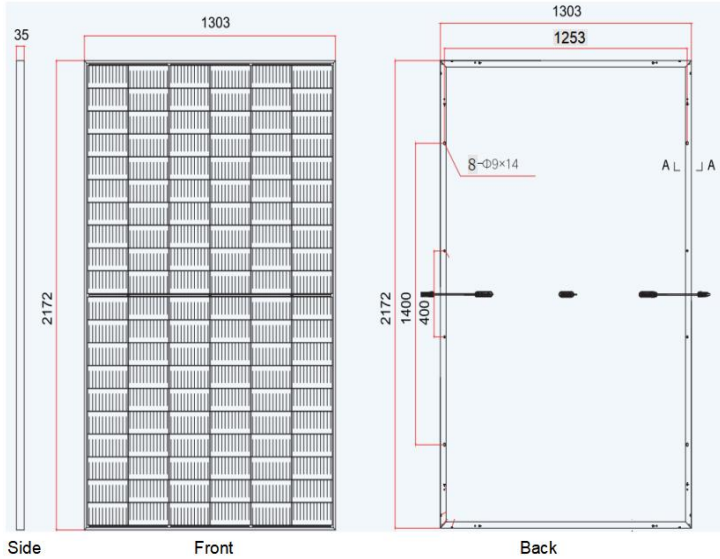


12 Year Product Warranty

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:  $\pm 2\text{mm}$

## Packaging Configuration

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

## SPECIFICATIONS

Module Type	XRM595W-60-210		XRM600W-60-210		XRM605W-60-210		XRM610W-60-210	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	595Wp	455Wp	600Wp	459Wp	605Wp	463Wp	610Wp	467Wp
Maximum Power Voltage (Vmp)	34.20V	31.70V	34.40V	31.89V	34.60V	32.07V	34.80V	32.26V
Maximum Power Current (Imp)	17.40A	14.36A	17.44A	14.39A	17.49A	14.43A	17.53A	14.47A
Open-circuit Voltage (Voc)	41.30V	38.33V	41.50V	38.51V	41.70V	38.70V	41.90V	38.88V
Short-circuit Current (Isc)	18.47A	15.15A	18.52A	15.19A	18.57A	15.23A	18.62A	15.27A
Module Efficiency STC (%)	21.02%		21.20%		21.38%		21.55%	
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/m <sup>2</sup> , module temperature 25°C, AM=1.5								
*NMOT: Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1 m/s								

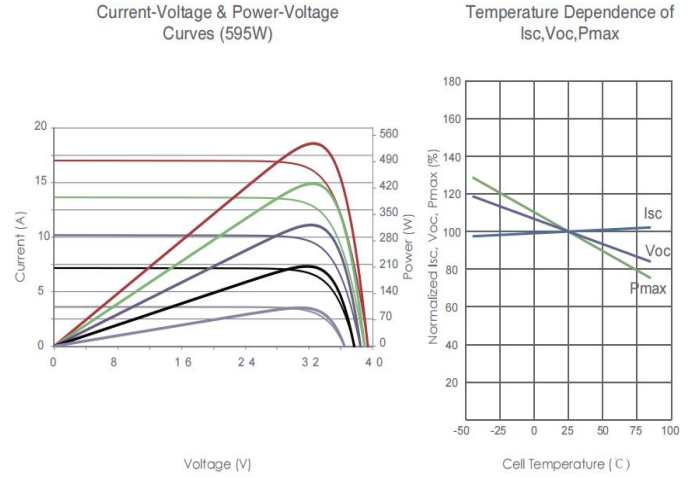
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Specific ations included in this datasheet are subject to change without notice.

# Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type:	P type Mono-crystalline 210X105
No. of Cells:	120 (6×20)Pcs
Dimensions:	2172x1303x35mm
Weight:	31Kg
Front Glass:	3.2mm, Anti-Reflection Coating
Frame:	Anodized Aluminium Alloy
Junction Box:	IP68 Rated

Output Cables: 4mm<sup>2</sup>(TUV) Length:(+)300mm, (-)300mm or Customized Length

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**XRM595-610W-60-210**