

MBB-55M-210

540-555 Watt

MONO-FACIAL MODULE

P-Type

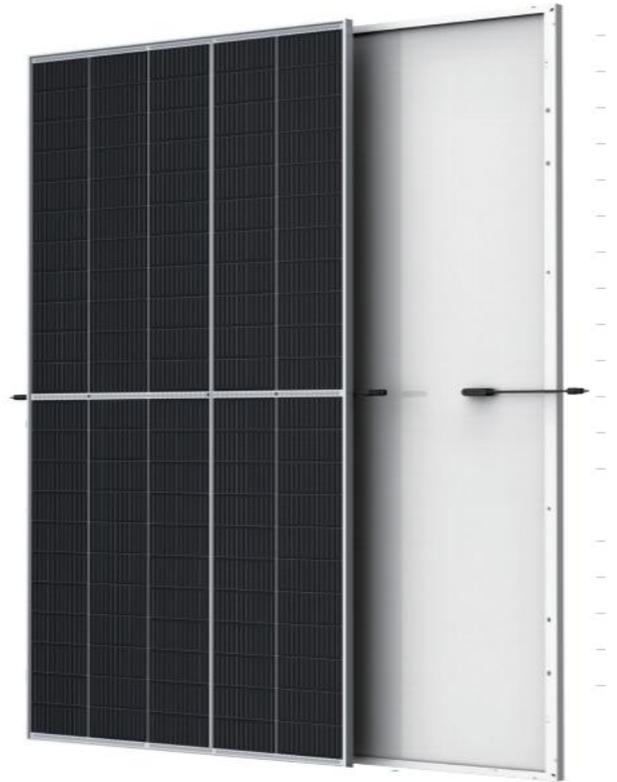
Positive power tolerance of 0~+3%

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.



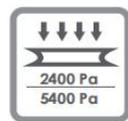
Longer Life-time Power Yield

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



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

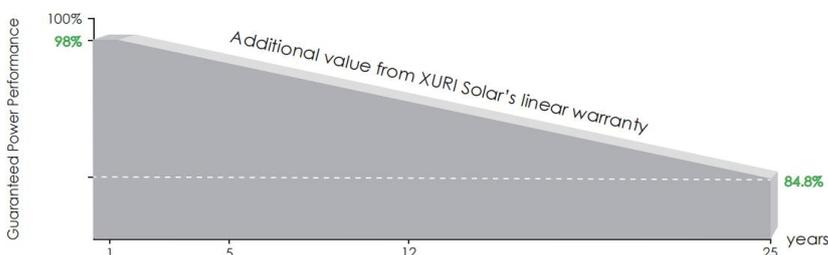


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

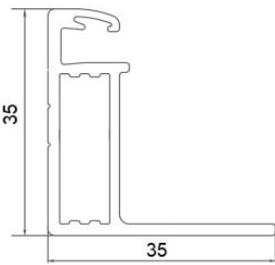
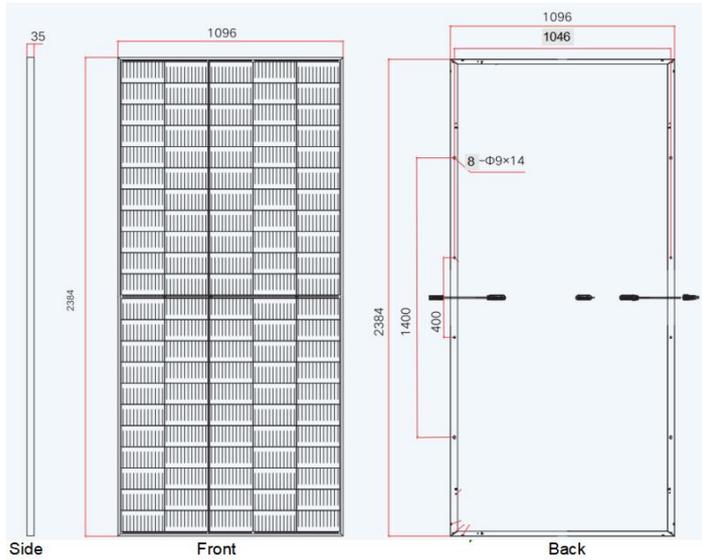


12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

Engineering Drawings



A-A

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

Packaging Configuration

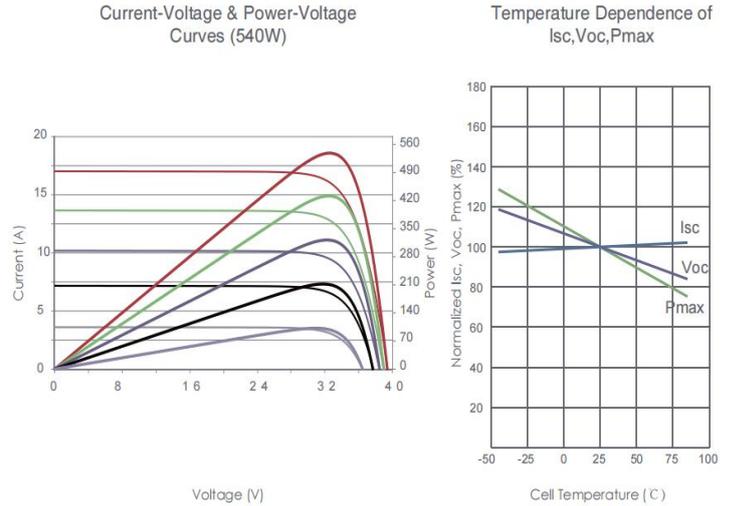
(Two pallets = One stack)

Packaging Configuration : 62pcs / box, 620pcs / 40'HQ Container

SPECIFICATIONS

| Module Type | XRM540W-55-210 | | XRM545W-55-210 | | XRM550W-55-210 | | XRM555W-55-210 | |
|--|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax) | 540Wp | 409Wp | 545Wp | 413Wp | 550Wp | 417Wp | 555Wp | 420Wp |
| Maximum Power Voltage (Vmp) | 31.56V | 29.26V | 31.76V | 29.44V | 31.96V | 29.63V | 32.16V | 29.81V |
| Maximum Power Current (Imp) | 17.11A | 13.98A | 17.16A | 14.03A | 17.21A | 14.07A | 17.26A | 14.09A |
| Open-circuit Voltage (Voc) | 37.86V | 35.13V | 38.06V | 35.32V | 38.26V | 35.51V | 38.46V | 35.69V |
| Short-circuit Current (Isc) | 18.12A | 14.86A | 18.17A | 14.90A | 18.22A | 14.94A | 18.27A | 14.98A |
| Module Efficiency STC (%) | 20.67% | | 20.86% | | 21.05% | | 21.24% | |
| 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 \pm 2°C | | | | | | | |
| *STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5 | | | | | | | | |
| *NMOT: Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1 m/s | | | | | | | | |

Electrical Performance & Temperature Dependence



Mechanical Characteristics

| | |
|---------------|-----------------------------------|
| Cell Type: | P type Mono-crystalline 210X105mm |
| No. of Cells: | 110 (5 \times 22)pcs |
| Dimensions: | 2384x1096x35mm |
| Weight: | 29.5Kg |
| 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

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

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XRM540-555W-55-210