



# X-Venus Series

**TOPCON**



Lower Power Temperature Coefficient and Broaden Spectral Response Enhance The Power Generation.



210R Cell Technology, High Conversion Efficiency



Higher power generation better LCOE



N-Type Cells ,Higher Resistance , Better Weak Light Performance ,Solar Gain  $\geq 0.25\%$



N-type cells with boron-oxide-free composite LID to increase module power generation

**615W-630W**

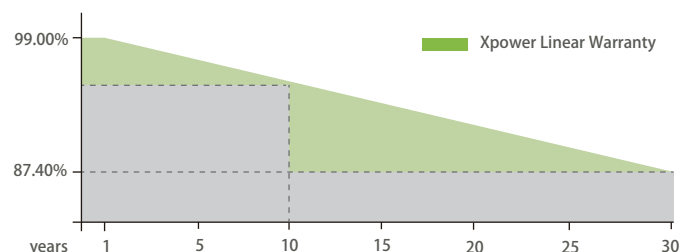
**XP-MH66R-615W-630W**

N type Mono-crystalline  
TOPCON Module

Comprehensive Products and System Certificates



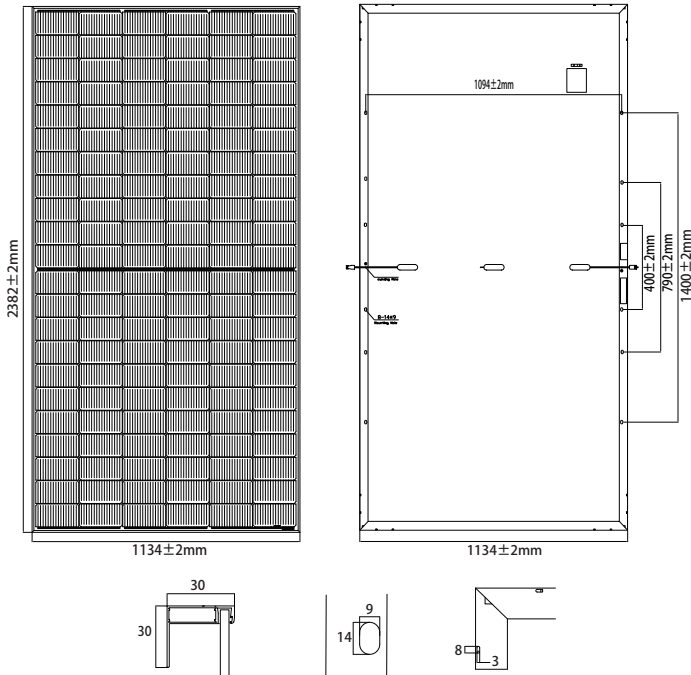
**PICC** Product Insurance



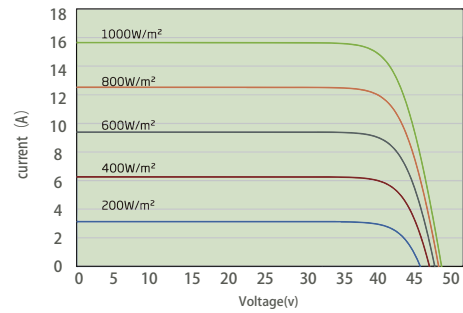
**15 years** Product quality & process guarantee

**30 years** Linear power guarantee

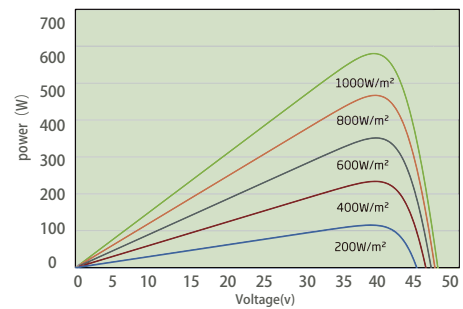
**DWSIGH**



**I-V CURVES OF PV MODULE (630W)**



**P-V CURVES OF PV MODULE (630W)**



**ELECTRIC CHARACTERISTICS**

| Model of modules                   | XP-MH66R-615W |       | XP-MH66R-620W |       | XP-MH66R-625W |       | XP-MH66R-630W |       |
|------------------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
|                                    | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  |
| Model of modules                   | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  |
| Maximum power-Pmax(W)              | 615           | 463   | 620           | 467   | 625           | 471   | 630           | 475   |
| Open Circuit voltage-Voc(V)        | 48.07         | 45.79 | 48.37         | 45.94 | 48.52         | 46.09 | 48.67         | 46.24 |
| Short Circuit Current-ISC (A)      | 15.94         | 13.05 | 16.02         | 13.12 | 16.10         | 13.19 | 16.18         | 13.26 |
| Maximum Power Voltage-Vmpp (V)     | 39.97         | 37.64 | 40.12         | 37.79 | 40.27         | 37.94 | 40.42         | 40.57 |
| Maximum Power Current-Impp (A)     | 15.39         | 12.31 | 15.46         | 12.37 | 15.53         | 12.42 | 15.59         | 11.71 |
| Module efficiency (%)              | 22.8%         |       | 23.0%         |       | 23.1%         |       | 23.3%         |       |
| Module efficiency w/m              | 227.7W        |       | 229.5W        |       | 231.4W        |       | 233.2W        |       |
| Maximum system voltage (V)         | 1500V         |       |               |       |               |       |               |       |
| Current operating temperature (°C) | -40°C~+85°C   |       |               |       |               |       |               |       |

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

**MECHANICAL DATA**

|                          |  |
|--------------------------|--|
| Solar Cells              | TOPCON Monocrystalline 182x 105mm              |
| Number of cells          | 120cells                                       |
| Module Dimensions(L*W*H) | 2382±2 x 1134±2 x 30±1mm                       |
| Glass                    | Tempered 3.2mm AR, High transmittance,Low iron |
| Encapsulant material     | POE/EVA  |
| Backsheet                | White  |
| Frame                    | Anodized Aluminium Alloy                       |
| Junction box             | IP68/1500V/25A                                 |
| Output wire              | 4.0mm <sup>2</sup> , wire length:300mm         |
| Connector                | MC4 Compatible                                 |
| Weight                   | 31.5kg   |
| Mechanical load          | 5400Pa   |

**PACKAGING CONFIGURATION**

| Container          | 20GP       | 40HQ       |
|--------------------|------------|------------|
| Quantity/pallet    | 36 pieces  | 36 pieces  |
| Pallet/container   | 5 pallets  | 20 pallets |
| Quantity/container | 180 pieces | 720pieces  |

**TEMPERATURE RATINGS**

|                                    |           |
|------------------------------------|-----------|
| Nominal operating cell temperature | 44±2°C    |
| Temperature Coefficient of PMAX    | -0.29%/°C |
| Temperature Coefficient of VOC     | -0.25%/°C |
| Temperature Coefficient of ISC     | +0.04%/°C |



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Specifications included in this datasheet are subject to change without notice.