



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

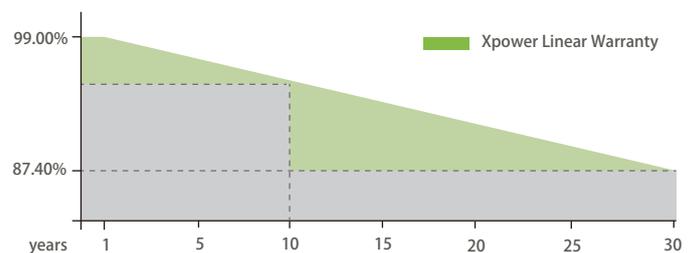
XP-MH66R-615W-630W

N type Mono-crystalline
TOPCON Module

Comprehensive Products and System Certificates



PICC Product Insurance

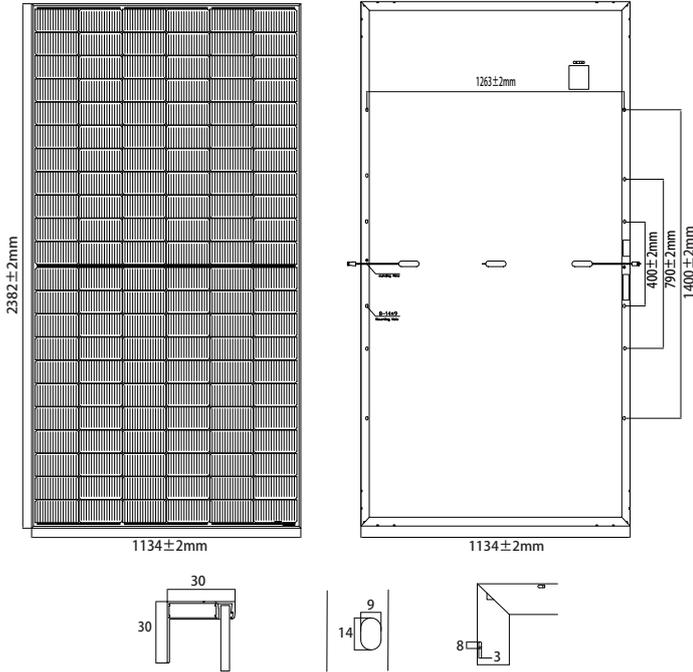


Product quality & process guarantee

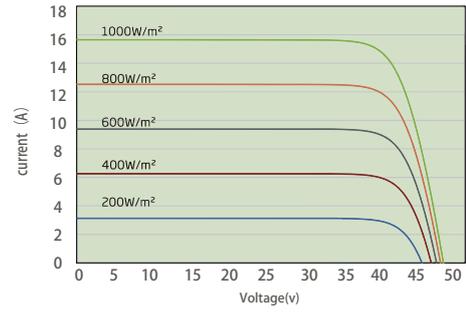


Linear power guarantee

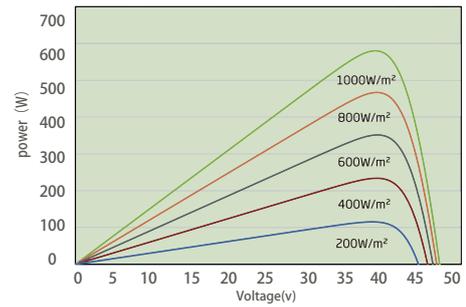
DWSIGH



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 | 38.09 |
| Maximum Power Current-Imp (A) | 15.39 | 12.31 | 15.46 | 12.37 | 15.53 | 12.42 | 15.59 | 12.47 |
| 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/m², Cell Temperature 25 °C, Spectra at AM1.5 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

MECHANICAL DATA

| | |
|--------------------------|---|
| Solar Cells | TOPCON Monocrystalline 182x 105mm |
| Number of cells | 132cells |
| 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 ² , wire length:300mm |
| Connector | MC4 Compatible |
| Weight | 31.5kg |
| Mechanical load | 5400Pa |

PACKAGING CONFIGURATION

| Container | 20GP | 40HQ |
|--------------------|------------|------------|
| Quantity/pallet | 37 pieces | 37 pieces |
| Pallet/container | 5 pallets | 20 pallets |
| Quantity/container | 185 pieces | 740pieces |

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.