

# X-Venus Series

## TOPCON



Lower Power Temperature Coefficient and Broaden Spectral Response Enhance the Power Generation



Topcon Multi-Busbar Solar Half Cell Stronger Current Collection Ability



Higher Power Generation Better LCOE



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



N-type with very Lower LID

## 465W-480W

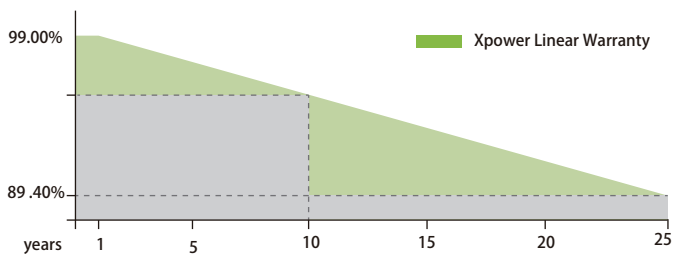
### XP-MH60L-465W-480W

N-type Mono-crystalline  
TOPCON Module

Comprehensive Products and System Certificates



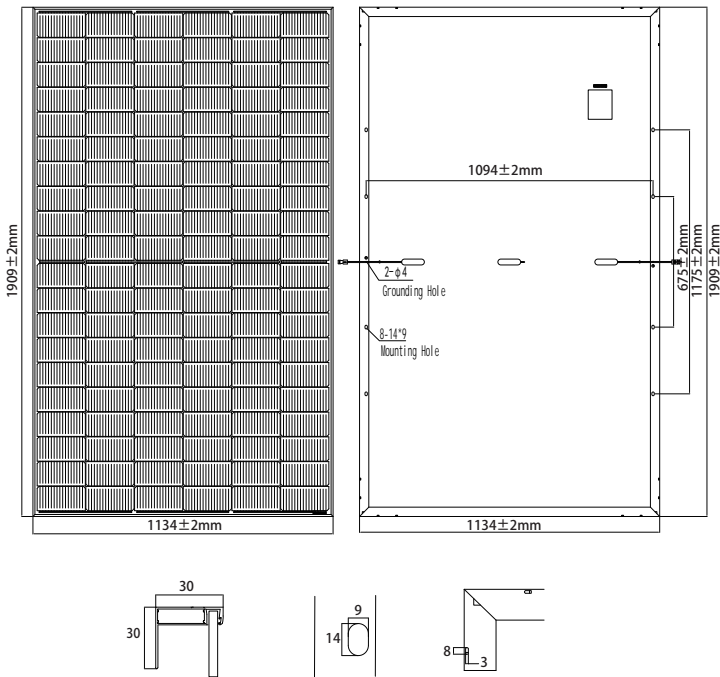
**PICC** Product Insurance



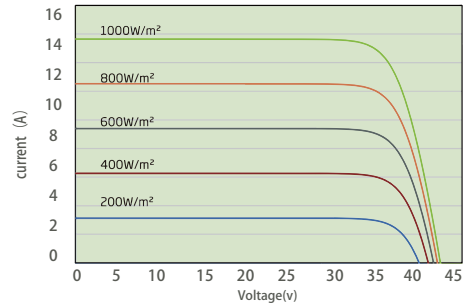
**15 years** Product quality & process guarantee

**25 years** Linear power guarantee

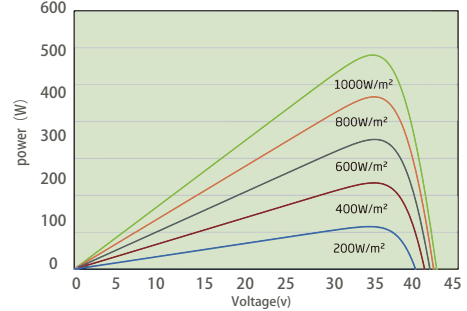
## DWSIGH



I-V CURVES OF PV MODULE (470w)



P-V CURVES OF PV MODULE (470w)



## ELECTRIC CHARACTERISTICS

Model of modules	XP-MH60L-465W		XP-MH60L-470W		XP-MH60L-475W		XP-MH60L-480W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Model of modules	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power-Pmax(W)	465	349	470	353	475	357	480	361
Open Circuit voltage-Voc(V)	42.22	40.10	42.38	40.25	42.54	40.41	42.71	40.57
Short Circuit Current-ISC (A)	14.07	11.36	14.15	11.42	14.23	11.49	14.31	11.55
Maximum Power Voltage-Vmpp (V)	34.90	32.77	35.06	32.94	35.22	33.10	35.39	33.27
Maximum Power Current-Impp (A)	13.33	10.67	13.41	10.73	13.49	10.79	13.57	10.85
Module efficiency (%)	21.5%		21.7%		21.9%		22.2%	
Module efficiency w/m	214.8W		217.1W		219.4W		221.7W	
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 182 x 91mm
Number of cells	120 cells
Module Dimensions(L*W*H)	1909±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	4.0mm², wire length:300mm
Connector	MC4 Compatible
Weight	24kg
Mechanical load	5400Pa

## PACKAGING CONFIGURATION

Container	20GP	40HQ
Quantity/pallet	36 pieces	36 pieces
Pallet/container	5 pallets	24 pallets
Quantity/container	180 pieces	864 pieces

## 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.