

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 $\geq 0.25\%$



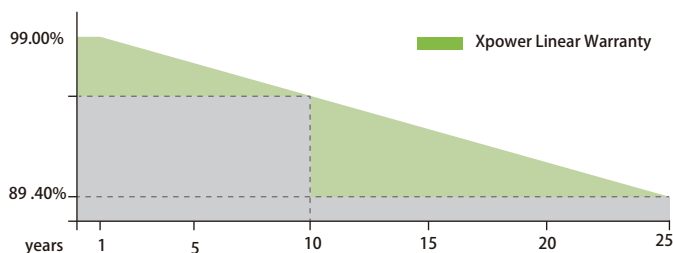
N-type with very Lower LID

420W-435W

XP-MH54L-420W-435W

N-type Mono-crystalline
TOPCON Module

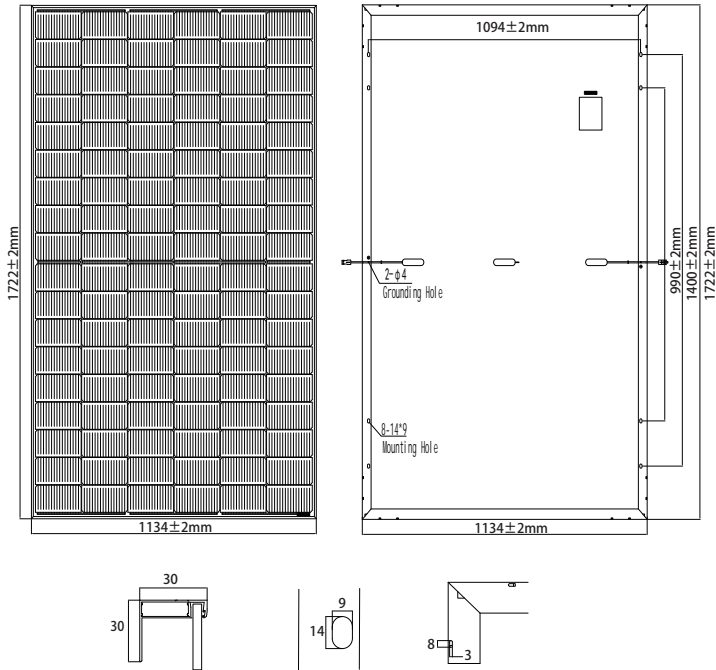
Comprehensive Products and System Certificates



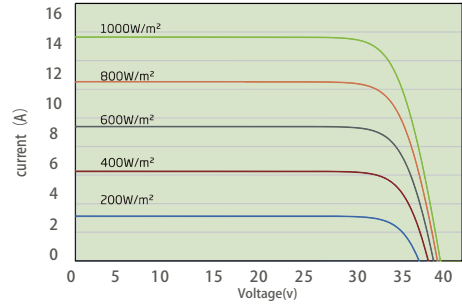
15 years Product quality & process guarantee

25 years Linear power guarantee

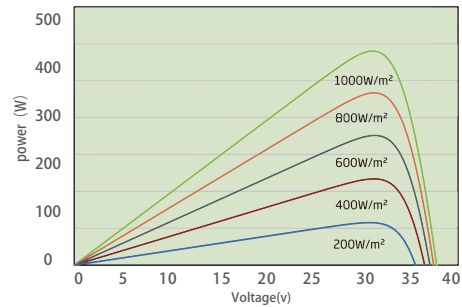
DWSIGH



I-V CURVES OF PV MODULE (430w)



P-V CURVES OF PV MODULE (430w)



ELECTRIC CHARACTERISTICS

Model of modules	XP-MH54L-420W		XP-MH54L-425W		XP-MH54L-430W		XP-MH54L-435W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Model of modules	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power-Pmax(W)	420	319	425	323	430	327	435	331
Open Circuit voltage-Voc(V)	38.11	36.10	38.30	36.20	38.49	36.40	38.68	36.50
Short Circuit Current-ISC (A)	14.07	11.34	14.15	11.41	14.23	11.47	14.31	11.53
Maximum Power Voltage-Vmpp (V)	31.52	29.70	31.71	29.90	31.89	30.10	32.08	30.32
Maximum Power Current-Impp (A)	13.33	10.74	13.41	10.80	13.49	10.87	13.57	10.92
Module efficiency (%)	21.5%		21.8%		22.0%		22.3%	
Module efficiency w/m	215.1W		217.6W		220.2W		222.7W	
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	108cells
Module Dimensions(L*W*H)	1722±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	21kg
Mechanical load	5400Pa

PACKAGING CONFIGURATION

Container	20GP	40HQ
Quantity/pallet	36 pieces	36 pieces
Pallet/container	6 pallets	26 pallets
Quantity/container	216 pieces	936 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.