

# X-Terra Series

PERC



Non destructive cutting to reduce the risk of hidden cracks in battery cells



High quality silicon wafers guarantee high power module output and excellent cost-effectiveness, making it an ideal choice for large power plants



Junction boxes with low risk of hidden cracks and hot spots achieve high safety



Selected packaging materials and strict process plans to ensure component PID resistance



High density packaging, improving module efficiency by 0.4~0.6%

## 495W-510W

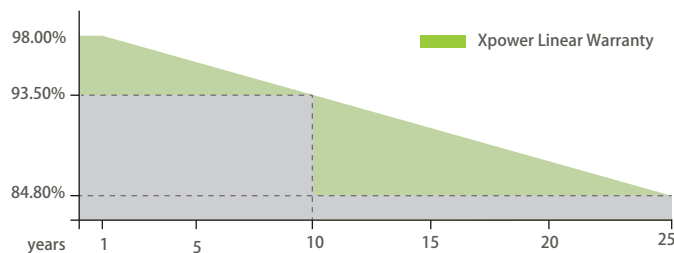
### XP-MH66L-495W-510W

High Efficiency Half- Cell Mono PERC Module  
The solar cells made of silicon

Comprehensive Products and System Certificates



**PICC** Product Insurance

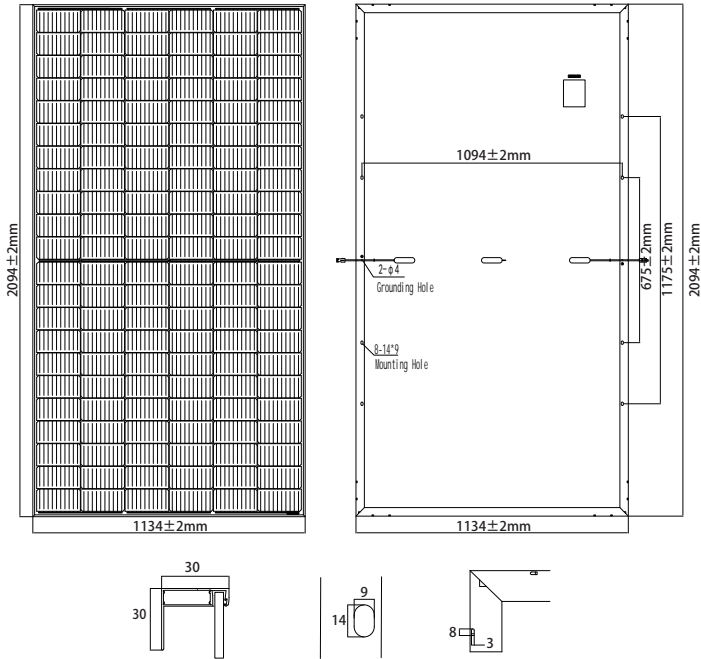


Product quality & process guarantee

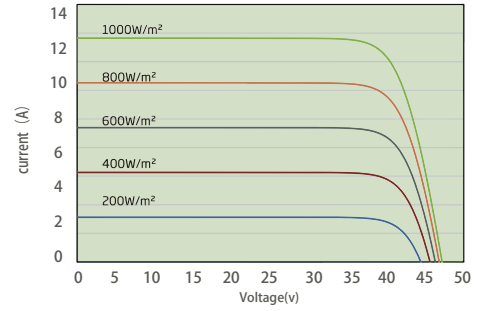


Linear power guarantee

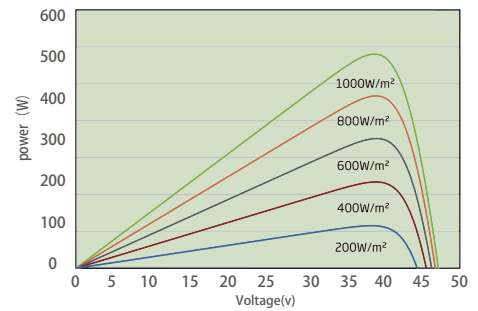
## DWSIGH



## I-V CURVES OF PV MODULE (500w)



## P-V CURVES OF PV MODULE (500w)



## ELECTRIC CHARACTERISTICS

Model of modules	XP-MH66L-495W		XP-MH66L-500W		XP-MH66L-505W		XP-MH66L-510W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Model of modules	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power-Pmax(W)	495	369	500	373	505	376	510	380
Open Circuit voltage-Voc(V)	45.34	42.61	45.43	42.71	45.52	42.79	45.61	42.87
Short Circuit Current-Isc (A)	13.78	11.17	13.85	11.24	13.92	11.31	13.99	11.38
Maximum Power Voltage-Vmpp (V)	37.34	34.72	37.41	34.79	37.48	34.86	37.55	34.79
Maximum Power Current-Impp (A)	13.26	10.63	13.37	10.73	13.48	10.79	13.59	10.93
Module efficiency (%)	20.8%		21.1%		21.3%		21.5%	
Module efficiency w/m	208.5W		210.6W		212.7W		214.8W	
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/5

## MECHANICAL DATA

Solar Cells	PERC Monocrystalline 182 x 91mm
Number of cells	132 cells
Module Dimensions(L*W*H)	2094±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	26.0kg
Mechanical load	5400Pa

## PACKAGING CONFIGURATION

Container	20GP	40HQ
Quantity/pallet	36 pieces	36 pieces
Pallet/container	5 pallets	22 pallets
Quantity/container	180 pieces	792 pieces

## TEMPERATURE RATINGS

Nominal operating cell temperature	45±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C



Scan QR Code to learn more  
Email: info@xpowersolar.com

ADD:27th Floor, Brilliant Center, No.200 Huaining Road, Shushan District, Hefei, Anhui Province, China  
Specifications included in this datasheet are subject to change without notice.