

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%

575W-590W

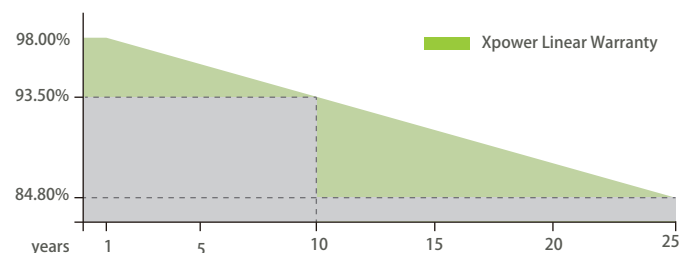
XP-MH78L-575W-590W

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

Comprehensive Products and System Certificates



PICC Product Insurance

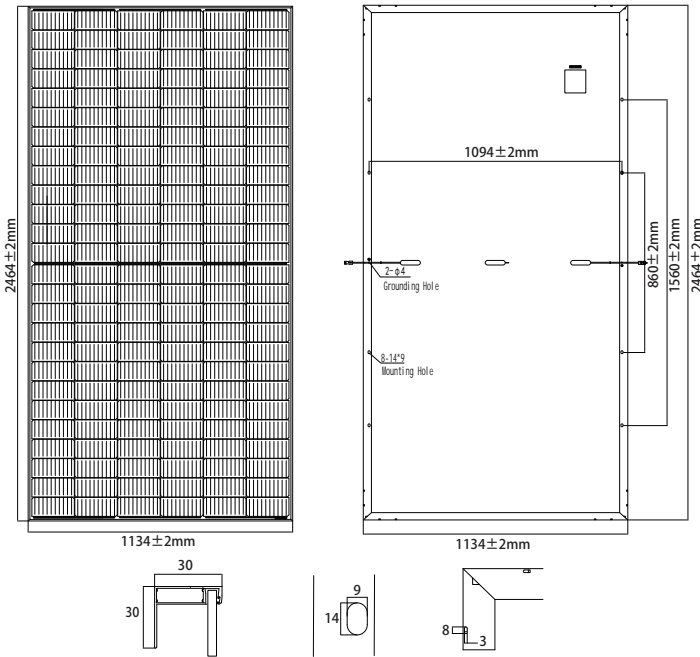


Product quality & process guarantee

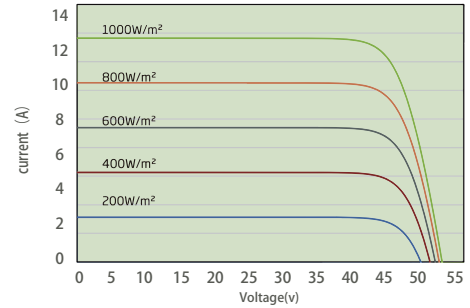


Linear power guarantee

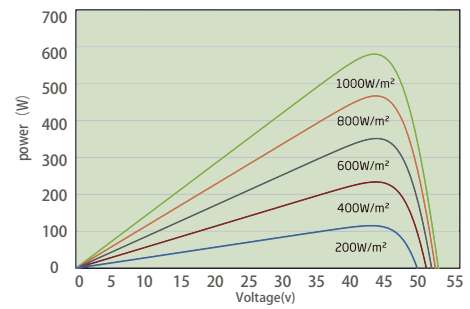
DWSIGH



I-V CURVES OF PV MODULE (590w)



P-V CURVES OF PV MODULE (590w)



ELECTRIC CHARACTERISTICS

Model of modules	XP-MH78L-575W		XP-MH78L-580W		XP-MH78L-585W		XP-MH78L-590W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Model of modules	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power-Pmax(W)	575	423	580	427	585	431	590	435
Open Circuit voltage-Voc(V)	53.40	49.86	53.52	49.98	53.64	50.10	53.76	50.22
Short Circuit Current-Isc (A)	13.67	10.96	13.76	11.05	13.85	11.14	13.94	11.23
Maximum Power Voltage-Vmpp (V)	44.45	41.46	44.57	41.58	44.70	41.70	44.81	41.82
Maximum Power Current-Impp (A)	12.94	10.21	13.02	10.27	13.09	10.34	13.17	10.41
Module efficiency (%)	20.6%		20.8%		20.9%		21.1%	
Module efficiency w/m	205.8W		207.6W		209.4W		211.2W	
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/5

MECHANICAL DATA

Solar Cells	PERC Monocrystalline 182 x 91mm
Number of cells	156 cells
Module Dimensions(L*W*H)	2464±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	30.0kg
Mechanical load	5400Pa

PACKAGING CONFIGURATION

Container	20GP	40HQ
Quantity/pallet	36 pieces	36 pieces
Pallet/container	4 pallets	18 pallets
Quantity/container	144 pieces	648 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



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