

# 120 Half Cells Solar Panel



## 120 Half Cells Solar Panel —XL120H-440~460W



IEC 61215  
IEC 61730



TUV Standard



ISO 9001:2015



### MBB Cell

New circuit design, lower internal current, lower internal resistance loss.



### Higher Output Power

Module adopts 120 pcs of 182\*182mm half cells, the maximum power can reach 460W.



### Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



### Low Light Features

Higher performance under low light environment



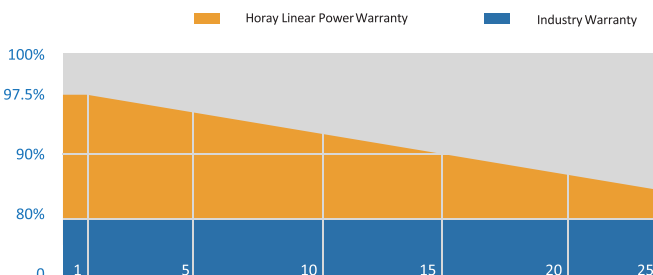
### PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized



### Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



**12**  
Quality Assurance

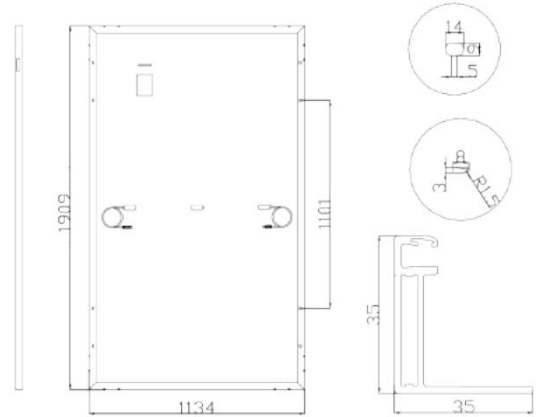
**25**  
linear warranty

**0.55%**  
Linear power decay

## SPECIFICATIONS

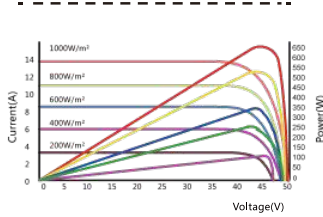
Cell Dimensions	182*182mm
Cell Amount	60*2pcs
Weight	24kg
Dimensions	1909*1134*35mm
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm <sup>2</sup> Landscape: N 1400mm/P 1400mm Portrail: N 200mm/P 300mm
Connector	MC4 compatible
Application Level	Class A

## MECHANICAL DIAGRAMS

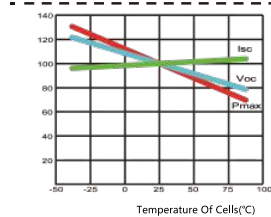


## CHARICTERISTICS

XL120H-440W



XL120H-440W



## PACKING INFORMATION

Packing Type	40'HQ
Pcs/Pallet	31Pieces
Pallet/Container	24
Packing Description	24Pallets, Total=(31+31)*10=620 Pieces

**12** YEARS **Quality Warranty**

**25** YEARS **Power Warranty**

## ELECTRICAL PARAMETERS

Type	XL-120H-440W		XL-120H-445W		XL-120H-450W		XL-120H-445W		XL-120H-460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rate Maximum Power-Pmax[W]	440	324	445	328	450	331	455	335	460	339
Open Circuit Voltage-Voc[V]	41.00	38.28	41.20	38.48	41.40	38.68	41.60	38.88	41.80	39.08
Short Circuit Current-Isc[A]	13.58	10.68	13.63	10.73	13.68	10.78	13.73	10.83	13.78	10.88
Maximum Power Voltage-Vmp[V]	34.20	31.94	34.40	32.14	34.60	32.34	34.80	32.54	35.00	32.74
Maximum Power Current-Imp[A]	12.87	10.14	12.94	10.21	13.01	10.24	13.10	10.30	13.15	10.35
Module Efficiency-η[%]	20.50%	15.10%	20.80%	15.30%	21.00%	15.40%	21.20%	15.60%	21.50%	15.80%
Output Tolerance	0~±3%									
Operating Temperature	-40°C~+85°C									
Maximun System Voltage	1500V									
Maximum Series Fuse Rating	25A									
Temp Coefficient of Pmax	-0.36%/°C									
Temp Coefficient of VOC	-0.28%/°C									
Temp Coefficient of ISC	+0.05%/°C									
Nominal Operating Cell Temperature	45±2°C									

STC: Irradiance: 1000W/m<sup>2</sup>

Temperature: 25°C

AM: =1.5

NOCT: Irradiance: 800W/m<sup>2</sup>

Temperature: 20°C

AM: =1.5

Wind Speed 1m/s