

# 580~610W

AS580-610G12-120

## MORE POWER

**UP TO 21.60%** Maximize the light absorption area, module efficiency up to 21.60 %.

Low temperature coefficient (Pmax): -0.34 % /°C.

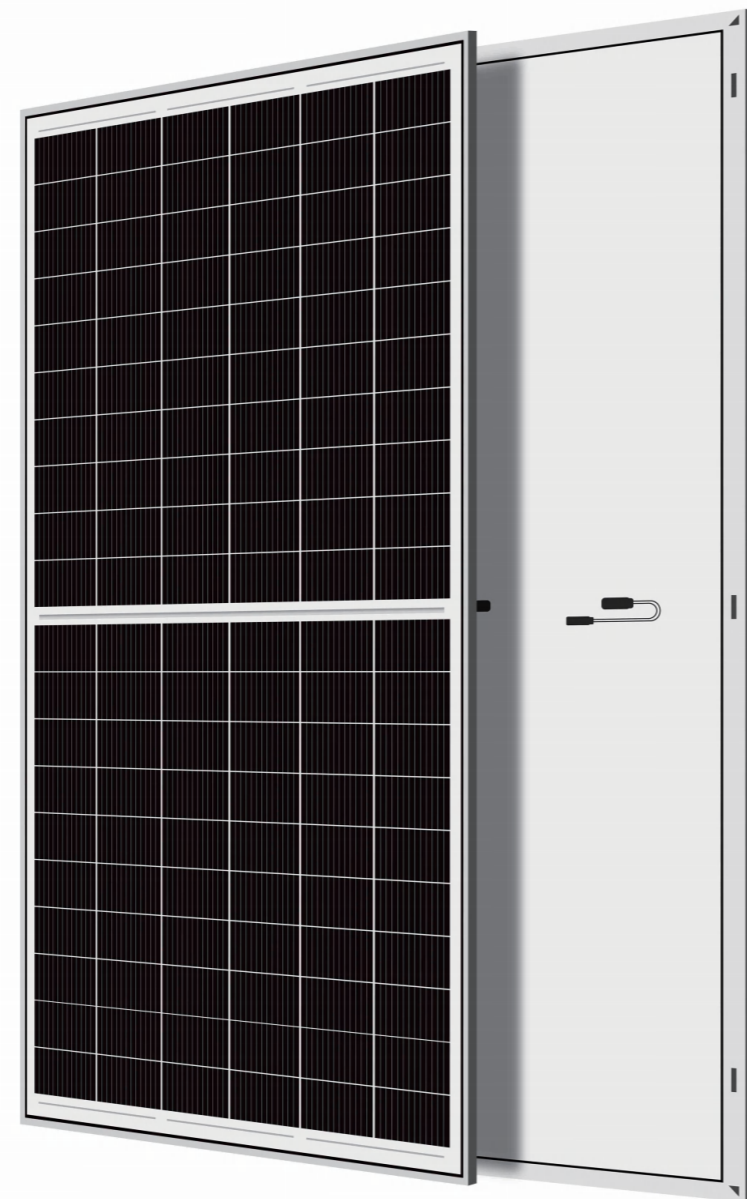
Better shading tolerance.

## MORE RELIABLE

Lower internal current, lower hot spot temperature.

Cell crack risk limited in small region, enhance the module reliability.

Heavy snow load up to 5400 Pa, wind load up to 2400 Pa.



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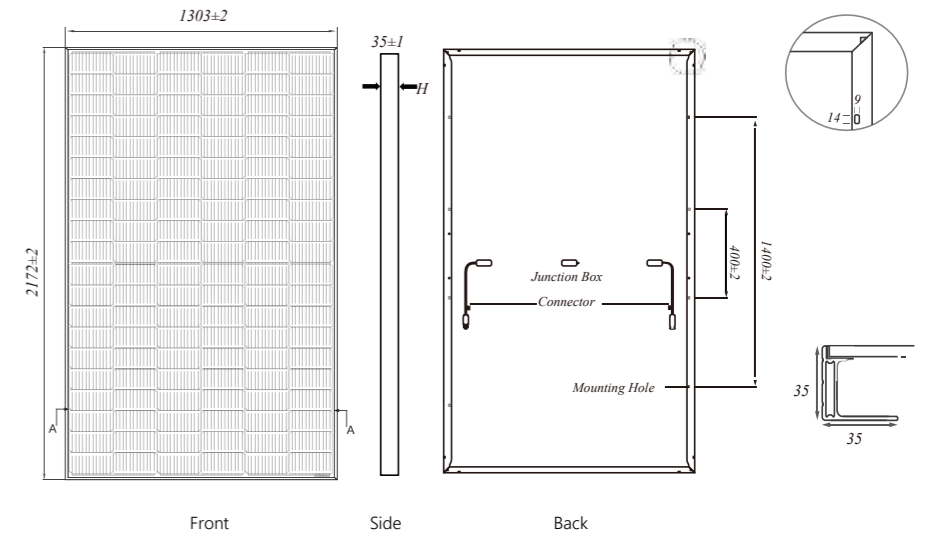
Half-Cell High Efficiency PV Module

**Weight**  
30.9kgs±3%

**Cells Type**  
Mono 210x105mm

**Dimension (LxWxT)**  
2172±2mmx1303±2mmx35±1mm

**Packaging**  
31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request

### MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	120(6x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68Rated,3diodes
Connector	MC4 Compatible

### OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 C ~ +85 C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	Class II

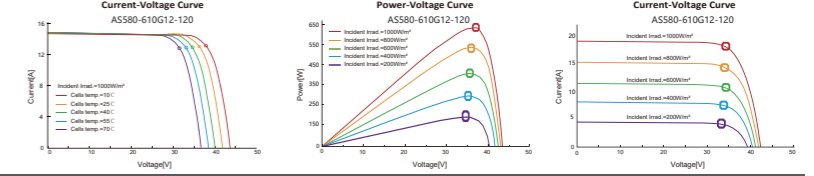
### ELECTRICAL CHARACTERISTICS

Module Type	STC:AM1.5 1000W/ m <sup>2</sup> 25 C		NOCT :AM1.5 800W/ m <sup>2</sup> 20 C 1m/s		Test uncertainty for Pmax ±3%									
	AS580G12-120	AS585G12-120	AS590G12-120	AS595G12-120	AS600G12-120	AS605G12-120	AS610G12-120	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power(Pmax/W)	580	435.2	585	438.9	590	442.7	595	446.4	600	450.2	605	453.9	610	457.7
Open Circuit Voltage(Voc/V)	40.50	38.00	40.70	38.20	40.90	38.40	41.10	38.60	41.30	38.80	41.50	38.90	41.70	39.10
Short Circuit Current(Isc/A)	18.27	14.76	18.32	14.80	18.37	14.84	18.42	14.88	18.47	14.92	18.52	14.96	18.57	15.30
Voltage at Maximum Power(Vmp/V)	34.10	31.80	34.30	32.00	34.50	32.20	34.70	32.40	34.90	32.60	35.10	32.80	35.30	32.90
Current at Maximum Power(Imp/A)	17.02	13.67	17.06	13.71	17.11	13.74	17.15	13.78	17.20	13.82	17.25	13.86	17.29	13.89
Module Efficiency(%)	20.50%	20.70%	20.80%	21.00%	21.20%	21.40%	21.60%							

### TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	43±2 C
Temperature Coefficient of Isc	+0.040%/ C
Temperature Coefficient of Voc	-0.250%/ C
Temperature Coefficient of Pmax	-0.340%/ C

### I-V CURVE(AS580-610G12-120)



**12** 12-year Product Warranty

**25** 25-year Linear Performance Warranty

### ADDITIONAL VALUE

