

# 580~610M

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.

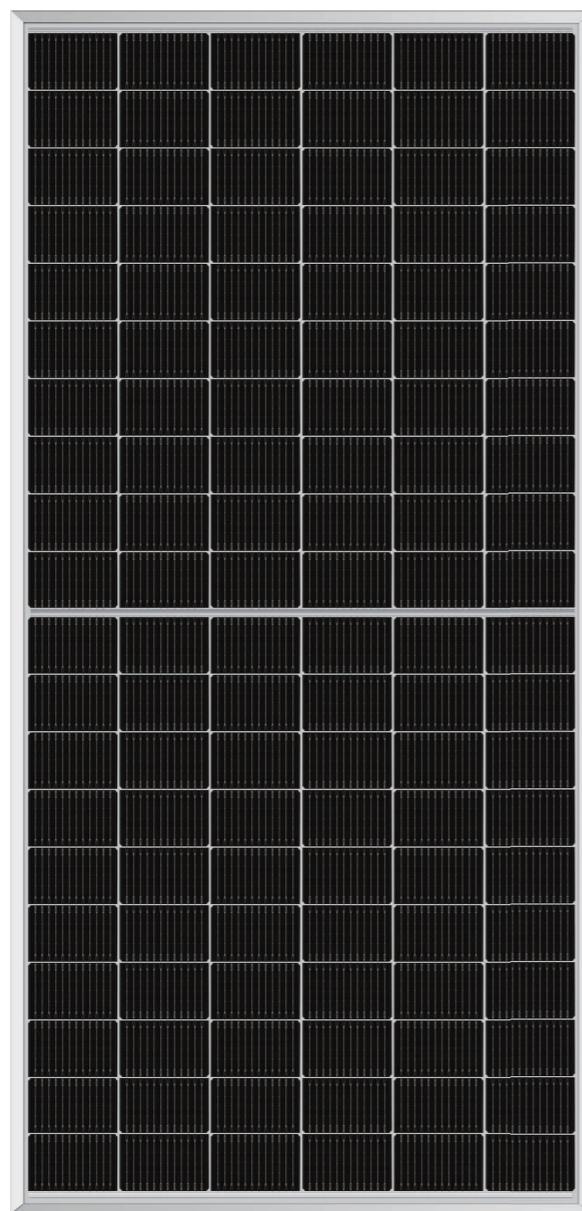
**Better shading tolerance.**

## MORE RELIABLE

**Lower internal current, lower hot spot temperature.**

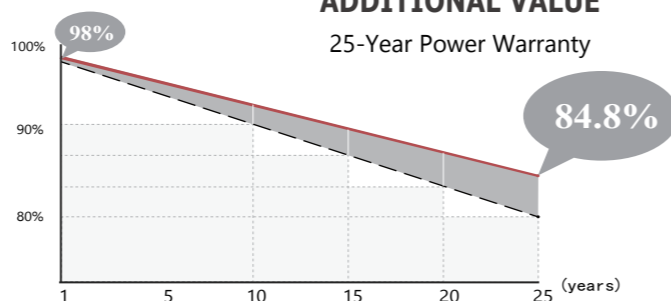
**Cell crack risk limited in small region, enhance the module reliability.**

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



### ADDITIONAL VALUE

25-Year Power Warranty



**12** 12-year Product Warranty

**25** 25-year Linear Performance Warranty



AS580-610G12-120

# 580-610W

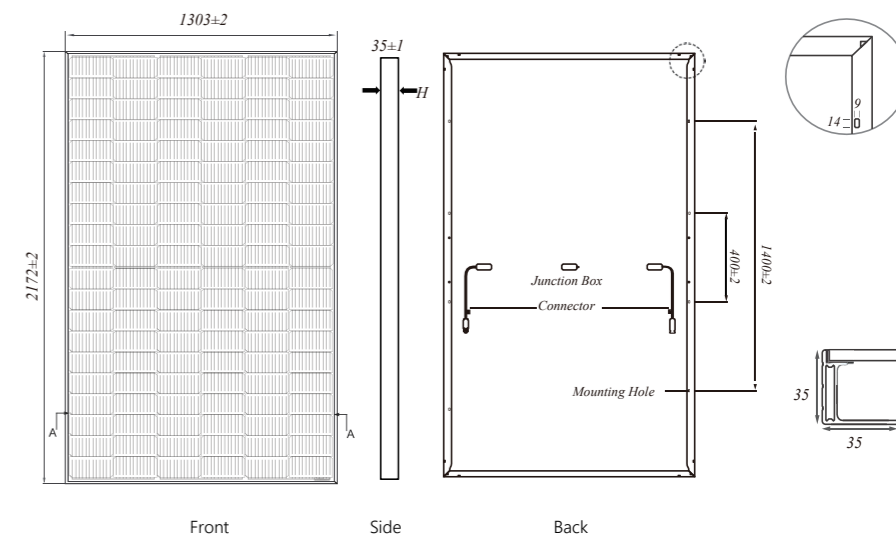
Half-Cell High Efficiency PV Module

**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				OPERATING PARAMETERS			
Cell	Mono			Maximum System Voltage	1500VDC		
No.of cells	120(6x20)			Operating Temperature	-40°C ~ +85°C		
Cable Length	300mm(+)/300mm(-)			Maximum Series Fuse	30A		
Cable Cross Section Size	4mm <sup>2</sup> (IEC)			Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )		
Junction Box	IP68Rated,3diodes			Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )		
Connector	MC4 Compatible			Safety Class	Class II		

ELECTRICAL CHARACTERISTICS	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	
Module Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	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

