

580~615W

AS580-615G12-120

MORE POWER

UP TO 21.73% Maximize the light absorption area, module efficiency up to 21.73 %.

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

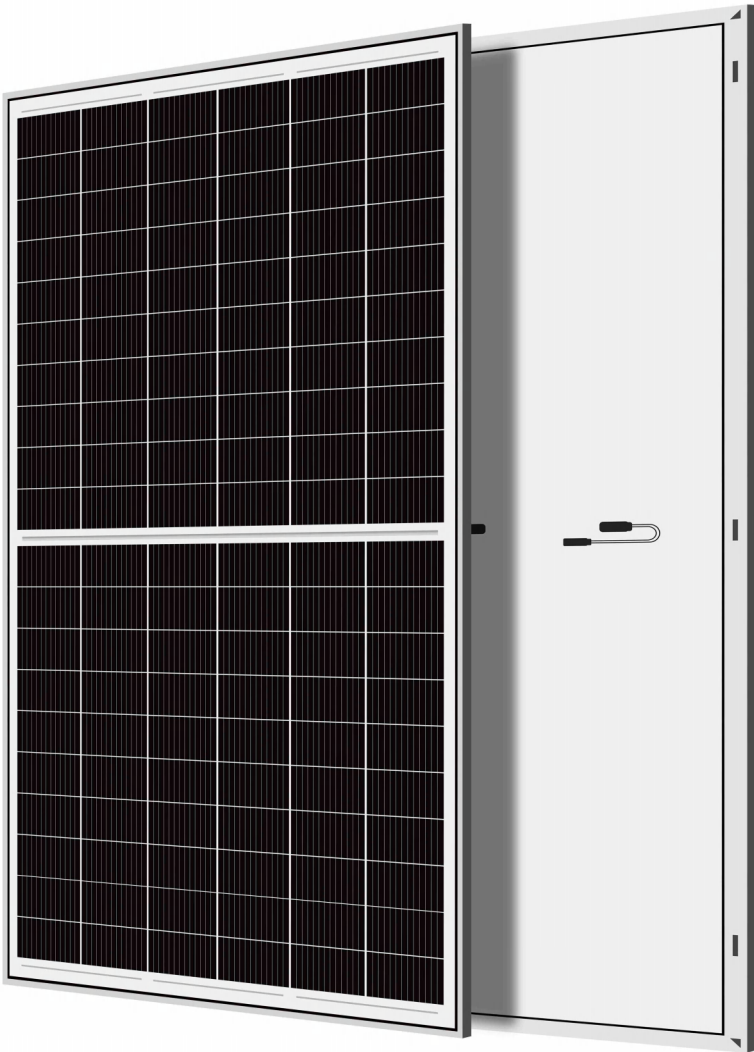
Better shading tolerance.

MORE RELIABLE

Lower internal current, lower hot spot temperature.

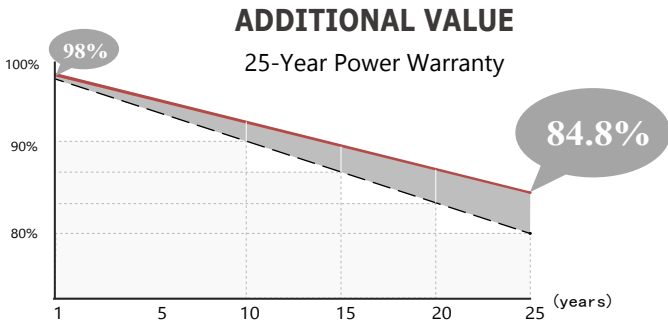
Cell crack risk limited in small region, enhance the module reliability.

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



12 12-year Product Warranty

25 25-year Linear Performance Warranty



580-615W

Monofacial Half-Cell PV Module

Weight

30.9kgs±3%

Cells Type

Mono 210x105mm

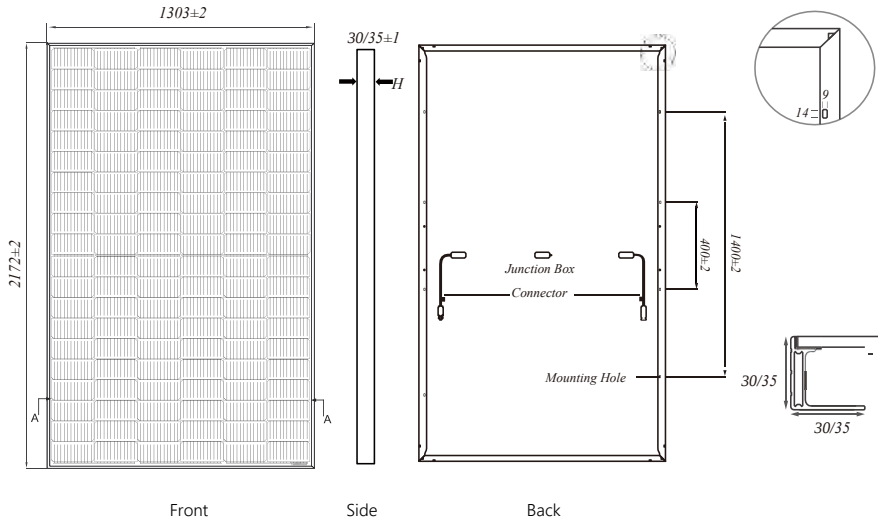
Dimension (LxWxT)

2172±2mmx1303±2mmx35/30±1mm

Packaging

31pcs/pallet, 558pcs/40HQ container

36pcs/pallet, 648pcs/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 ² (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 ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	ClassII

ELECTRICAL CHARACTERISTICS

STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS580G12-120	AS585G12-120	AS590G12-120	AS595G12-120	AS600G12-120	AS605G12-120	AS610G12-120	AS615G12-120
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	580	435.2	585	438.9	590	442.7	595	446.4
Open Circuit Voltage(Voc/V)	41.44	38.00	41.56	38.20	41.68	38.40	41.80	38.60
Short Circuit Current(Isc/A)	17.93	14.76	17.99	14.80	18.05	14.84	18.11	14.88
Voltage at Maximum Power(Vmp/V)	34.00	31.80	34.20	32.00	34.40	32.20	34.60	32.40
Current at Maximum Power(Imp/A)	17.09	13.67	17.13	13.71	17.17	13.74	17.21	13.78
Module Efficiency(%)	20.49	20.67	20.85	21.02	21.20	21.38	21.55	21.73

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(AS580-615G12-120)

