

580~615W

AS580-615G12-120

BIFACIAL MONO PERC

MORE POWER

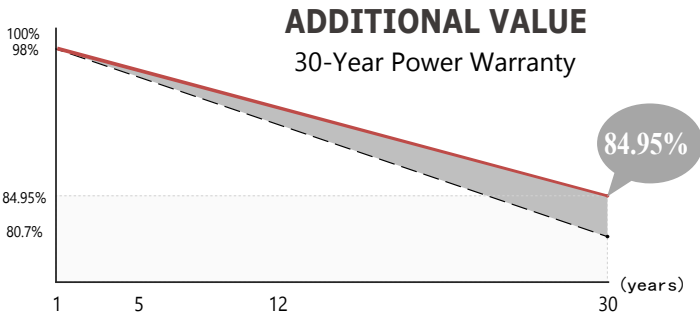
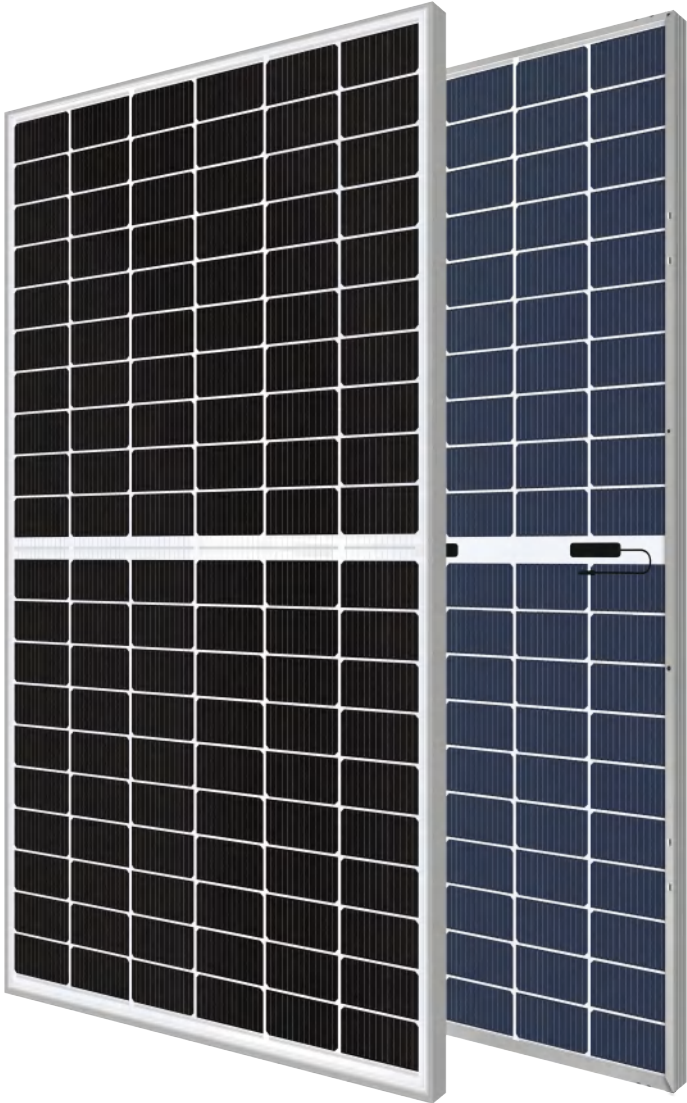
- 615W Module power up to 615 W
Module efficiency up to 21.73 %
- \$ Up to 8.9 % lower LCOE
Up to 4.6 % lower system cost
- Compatible with mainstream trackers, cost effective product for utility power plant
- Better shading tolerance

MORE RELIABLE

- 40 °C lower hot spot temperature, greatly reduce module failure rate
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

15 15-year Warranty for Materials and Processing

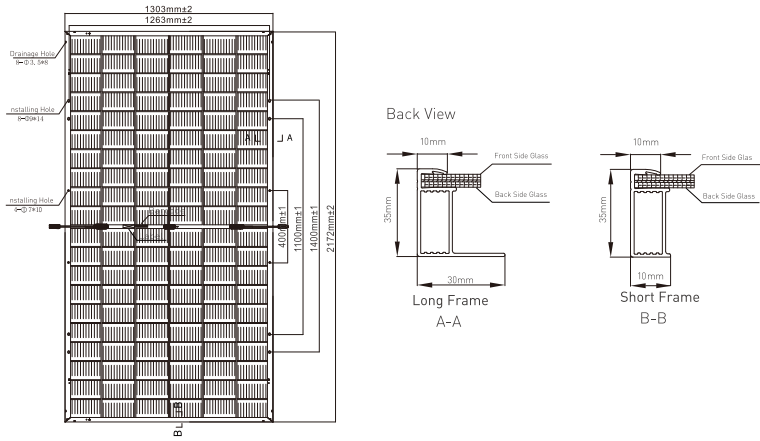
30 30-year Warranty for Extra Linear Power Output



580-615W

Bifacial Half-Cell PV Module

- Weight 35.3kgs±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	4mm²(IEC)			Maximum StaticLoad,Front	5400Pa(112lb/ft²)		
Junction Box	IP68,3 diodes			Maximum StaticLoad,Back	2400Pa(50lb/ft²)		
Connector	MC4 Compatible			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	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	615	457.7
Open Circuit Voltage(Voc/V)		41.44	38.00	41.56	38.20	41.68	38.40	41.80	38.60	41.92	38.80	42.04	38.90	42.16	39.10	42.28	39.10
Short Circuit Current(Isc/A)		17.93	14.76	17.99	14.80	18.05	14.84	18.11	14.88	18.17	14.92	18.23	14.96	18.29	15.30	18.35	15.30
Voltage at Maximum Power(Vmp/V)		34.00	31.80	34.20	32.00	34.40	32.20	34.60	32.40	34.80	32.60	35.00	32.80	35.20	32.90	35.40	32.90
Current at Maximum Power(Imp/A)		17.09	13.67	17.13	13.71	17.17	13.74	17.21	13.78	17.25	13.82	17.29	13.86	17.33	13.89	17.38	13.89
Module Efficiency(%)		20.49		20.67		20.85		21.02		21.20		21.38		21.55		21.73	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAINS										TEMPERATURE RATINGS	
5%	Maximum Power(Pmax/W)	609	614	620	625	630	635	641	646	Nominal Operating Cell Temperature(NOCT) 43±2 °C	
	Module Efficiency (%)	21.5%	21.7%	21.9%	22.1%	22.3%	22.4%	22.6%	22.8%		
10%	Maximum Power(Pmax/W)	638	644	649	655	660	666	671	677	Temperature Coefficient of Isc +0.040%/ °C	
	Module Efficiency (%)	22.5%	22.7%	22.9%	23.1%	23.3%	23.5%	23.7%	23.9%		
20%	Maximum Power(Pmax/W)	696	702	708	714	720	726	732	738	Temperature Coefficient of Voc -0.250%/ °C	
	Module Efficiency (%)	24.6%	24.8%	25.0%	25.2%	25.4%	25.7%	25.9%	26.1%		
										Temperature Coefficient of Pmax -0.340%/ °C	

