

SSD—AHJG / 10BB

Monocrystalline High-efficiency Bifacial Solar Module

580W — 600W

21.5%

Module efficiency up to 21.5%



Features



10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss

Ga doped wafer, attenuation $\leq 2\%$ (1st year) / $\leq 0.45\%$ (Linear)



Industry leading high yield

Bifacial PERC cell technology, 5%-25% more yield depends on different conditions



Anti
PID

Excellent Anti-PID performance

3 times of industry standard Anti-PID test



Wider application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



IP68 junction box

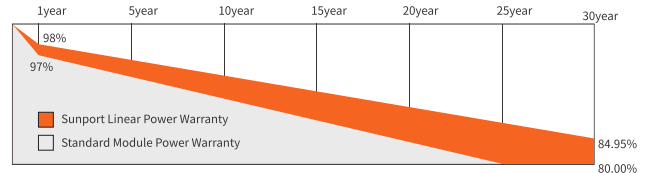
High waterproof level

Performance Warranty



Insured by PAIC and LLOYD'S

PING AN LLOYD'S



Within the first year from the date of installation and normal operation, the output power shall not be less than 98% of the product's minimum output power as set forth in the specifications, Afterwards, maximum 0.45% output decrease per year. After 30 years, the product's output power shall not be less than 84.95% of its minimum output power as set forth in the specifications.

Comprehensive Qualifications & Certifications

- ★ ISO 9001:2015 Quality Management System
- ★ ISO 14001:2015 Environment Management System
- ★ ISO 45001: 2018 Occupation Health Safety Management System
- ★ TUV NORD Certification



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SSD580AHJG	SSD585AHJG	SSD590AHJG	SSD595AHJG	SSD600AHJG
Max-Power(Pm)	W	580	585	590	595	600
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	45.10	45.25	45.40	45.5	45.70
Max-Power Current(Im)	A	12.86	12.93	13.00	13.06	13.13
Open-Circuit Voltage(Voc)	V	53.50	53.65	53.80	53.95	54.10
Short-Circuit Current(Isc)	A	13.75	13.81	13.87	13.93	13.99
Module Efficiency(ηm)	%	20.7	20.9	21.1	21.3	21.5

STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SSD580AHJG	SSD585AHJG	SSD590AHJG	SSD595AHJG	SSD600AHJG
Max-Power(Pm)	W	436	440	444	448	452
Max-Power Voltage(Vm)	V	40.65	40.80	40.95	41.10	41.25
Max-Power Current(Im)	A	10.73	10.78	10.84	10.90	10.96
Open-Circuit Voltage(Voc)	V	49.15	49.30	49.45	49.60	49.75
Short-Circuit Current(Isc)	A	11.35	11.41	11.47	11.53	11.59

NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.26%/°C
Temperature coefficient of Isc	0.048%/°C

Package

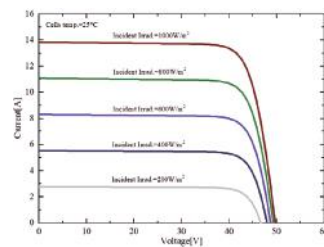
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Platform Trailer	13m	620	31
Platform Trailer	17.5m	806	31

Mechanical Characteristics

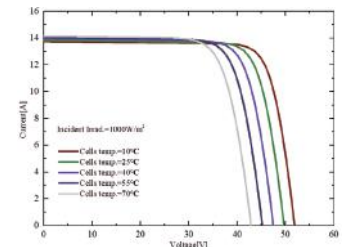
Dimension(L×W×H)	2465mmx1134mmx35mm
Weight	34.6kg
Front Glass	High Transmittance Anti-reflective Coated Tempered Glass /2mm
Back Glass	Glazed Semi-tempered Glass/2mm
Solar Cell	156(26x6) / 10BB Mono / Half-cell
Frame	Anodized Aluminum Alloy / Silver
Junction Box	EVA/POE
Cable	4mm ² , 300mm or Customized•Length
Connector	MC4 Compatible

I-V Curve

I-V Curves of SSD590AHJG at different irradiance



I-V Curves of SSD590AHJG at different cell temperature



Operating Conditions

Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	25A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

Module Size

