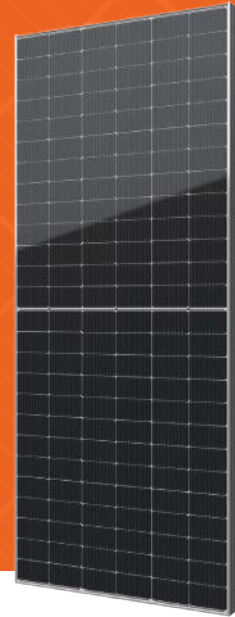


SSD—AHJH / 10BB Mono PERC Half-Cut Module 580W — 600W

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) / $\leq 0.55\%$ (Linear)



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCOE

2% more power generation, lower LCOE



Excellent Anti-PID performance

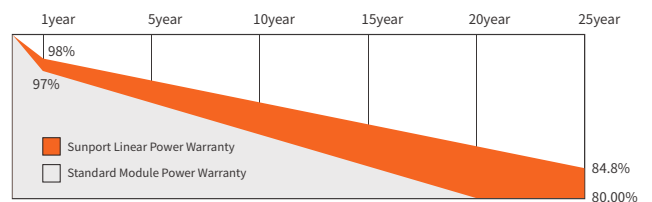
3 times of industry standard Anti-PID test



IP68 junction box

High waterproof level

Performance Warranty



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 0.55% output decrease per year. After 25 years, the product's output power shall not be less than 84.8% 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	SSD580AHJH	SSD585AHJH	SSD590AHJH	SSD595AHJH	SSD600AHJH
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	45.55	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	SSD580AHJH	SSD585AHJH	SSD590AHJH	SSD595AHJH	SSD600AHJH
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

Mechanical Characteristics

Dimension(L×W×H)	2465mm×1134mm×35mm
Weight	30.6kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	156(26x6) / 10BB Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm ² ,350mm(+)/150mm(-) or Customized-Length
Connector	MC4 Compatible

Operating Conditions

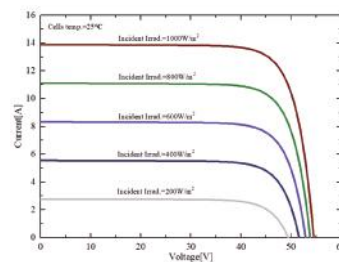
Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	25A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

Package

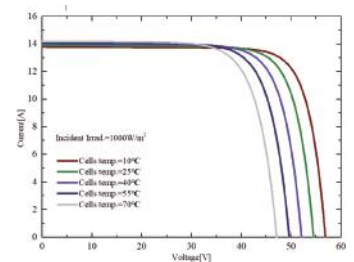
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Platform Trailer	13m	620	31
Platform Trailer	17.5m	806	31

I-V Curve

I-V Curves of SSD590AHJH at different irradiance



I-V Curves of SSD590AHJH at different cell temperature



Module Size

