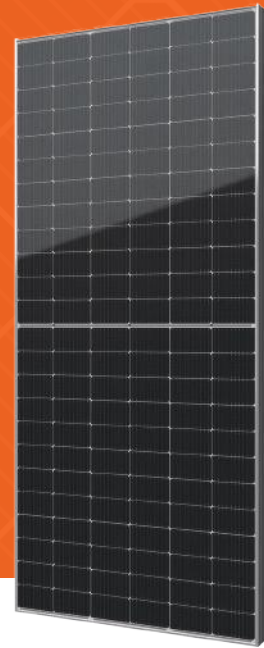


# SSD—AH7H / 10BB Mono PERC Half-Cut Module 535W — 560W

**21.7%**

Module efficiency up to



## 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



Anti  
**PID**

### Excellent Anti-PID performance

3 times of industry standard Anti-PID test



### IP68 junction box

High waterproof level

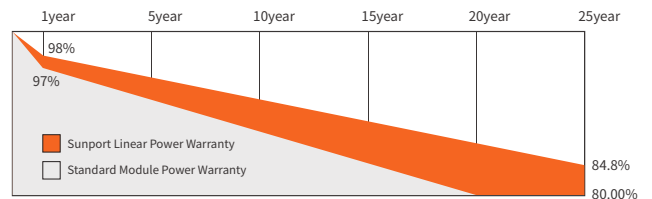
## Performance Warranty

**12** year

Quality  
Warranty

**25** year

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



Spec/Model	Unit	SSD535AH7H	SSD540AH7H	SSD545AH7H	SSD550AH7H	SSD555AH7H	SSD560AH7H
Max-Power(Pm)	W	535	540	545	550	555	560
Power Tolerance	W				0~+5		
Max-Power Voltage(Vm)	V	41.55	41.71	41.87	42.00	42.12	42.28
Max-Power Current(I <sub>m</sub> )	A	12.90	12.97	13.04	13.12	13.2	13.27
Open-Circuit Voltage(V <sub>oc</sub> )	V	49.50	49.65	49.85	50.10	50.34	50.55
Short-Circuit Current(I <sub>sc</sub> )	A	13.63	13.69	13.74	13.79	13.84	13.9
Module Efficiency(η <sub>m</sub> )	%	20.7	20.9	21.1	21.3	21.5	21.7

STC: AM=1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

## Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SSD535AH7H	SSD540AH7H	SSD545AH7H	SSD550AH7H	SSD555AH7H	SSD560AH7H
Max-Power(P <sub>m</sub> )	W	401	405	409	413	417	421
Max-Power Voltage(V <sub>m</sub> )	V	38.25	38.40	38.55	38.70	38.85	39.00
Max-Power Current(I <sub>m</sub> )	A	10.50	10.55	10.61	10.68	10.74	10.80
Open-Circuit Voltage(V <sub>oc</sub> )	V	46.25	46.40	46.55	46.70	46.85	47.00
Short-Circuit Current(I <sub>sc</sub> )	A	10.89	10.94	10.99	11.03	11.06	11.11

NMOT: Irradiation 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

## Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P <sub>max</sub>	-0.35%/°C
Temperature coefficient of V <sub>oc</sub>	-0.26%/°C
Temperature coefficient of I <sub>sc</sub>	0.048%/°C

## Package

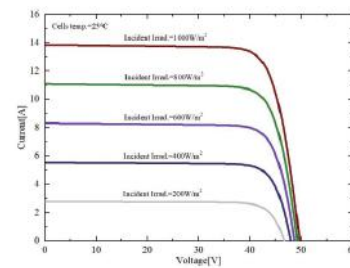
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	620	31
Platform Trailer	13m	682	31
Platform Trailer	17.5m	930	31

## Mechanical Characteristics

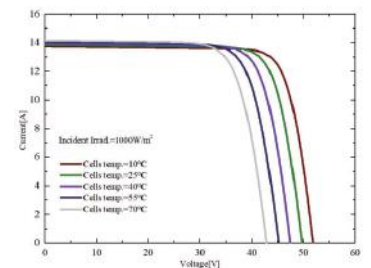
Dimension(L×W×H)	2277mm×1133mm×35mm
Weight	27kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6) / 10BB Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm <sup>2</sup> ,300mm(+)/150mm(-) or Customized · Length
Connector	MC4 Compatible

## I-V Curve

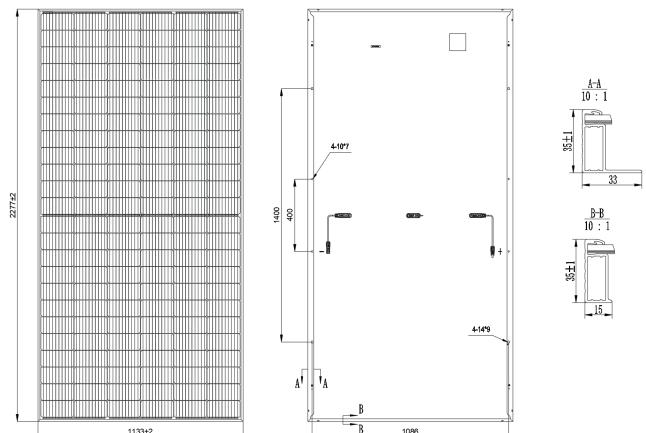
I-V Curves of SSD545AH7H at different irradiance



I-V Curves of SSD545AH7H at different cell temperature



## Module Size



## 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