

SSD—YHBH / 12BB Mono PERC Half-Cut Module 535W — 555W

21.2%

Module efficiency up to 21.2%

Features



12BB 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

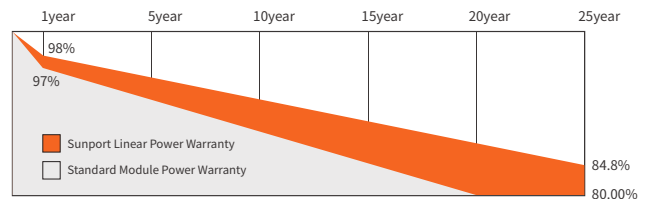
3 times of industry standard Anti-PID test



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	SSD535YHBH	SSD540YHBH	SSD545YHBH	SSD550YHBH	SSDP555YHBH
Max-Power(Pm)	W	535	540	545	550	555
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	31.0	31.2	31.4	31.6	31.8
Max-Power Current(Im)	A	17.28	17.33	17.37	17.40	17.45
Open-Circuit Voltage(Voc)	V	37.3	37.5	37.7	37.9	38.1
Short-Circuit Current(Isc)	A	18.36	18.41	18.47	18.52	18.56
Module Efficiency(ηm)	%	20.5	20.7	20.9	21.0	21.2

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

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SSD535YHBH	SSD540YHBH	SSD545YHBH	SSD550YHBH	SSDP555YHBH
Max-Power(Pm)	W	405	409	413	417	420
Max-Power Voltage(Vm)	V	28.8	29.0	29.2	29.4	29.5
Max-Power Current(Im)	A	14.06	14.10	14.15	14.19	14.23
Open-Circuit Voltage(Voc)	V	35.1	35.3	35.5	35.7	35.9
Short-Circuit Current(Isc)	A	14.80	14.84	14.88	14.92	14.96

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	-0.34%/°C
Temperature coefficient of Voc	-0.25%/°C
Temperature coefficient of Isc	0.04%/°C

Mechanical Characteristics

Dimension(L×W×H)	2384mmx1096mmx35mm
Weight	28.6kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	110(22x5) / 12BB Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm ² ,300mm or Customized-Length
Connector	MC4 Compatible

Operating Conditions

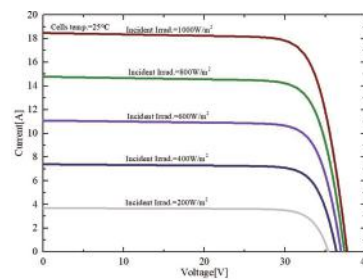
Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	25A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

Package

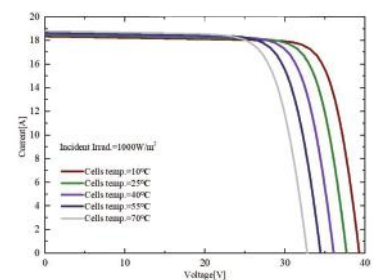
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	620	31
Platform Trailer	13m	620	31
Platform Trailer	17.5m	868	31

I-V Curve

I-V Curves of SSD545YHBH at different irradiance



I-V Curves of SSD545YHBH at different cell temperature



Module Size

