

SATURN

HJT Monocrystal PV Module Series

SS6-72HD 455~480N



Multi-busbar HJT cell improves the efficiency of modules by decreasing the distance between busbars and finger grid line



HJT cell technology makes PV module first year power degradation <1%



Half-cut cell technology to reduce hot spot risk



Optimized electrical design with lower operating current improves shading response



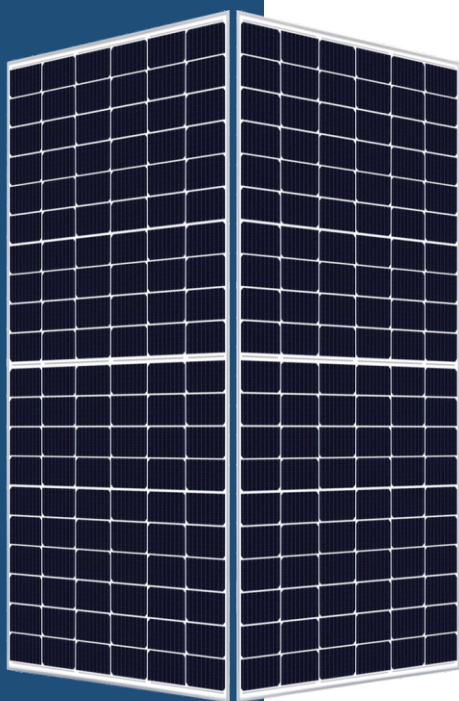
Advance Glass And Cell Surface Textured Design Ensure Excellent Performance In Low-light Environment.



Severe weather resilience: certified to withstand wind load (2400 pascal) and snow load (5400 pascal)

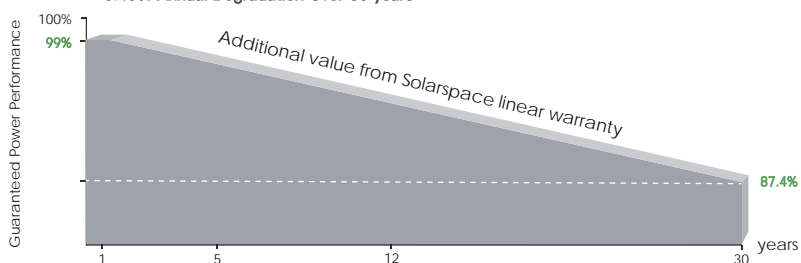


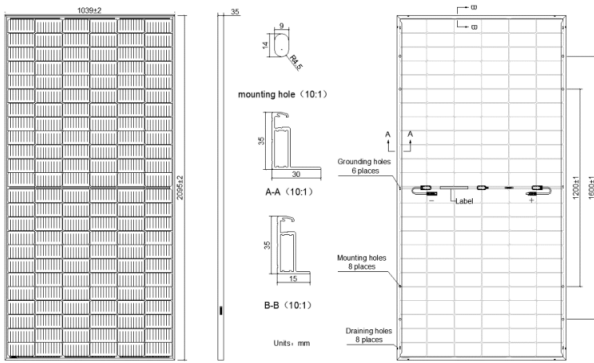
Bifacial technology enables additional energy harvesting from rear side



30-YEAR LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty
30 Year linear Power Warranty
0.40% Annual Degradation Over 30 years





Cell Type

HJT 166*166mm

Weight

27.5±3%kg

Dimensions

2095±2mmX1039±2mmX35±1mm

Glass

Front: 2.0mm Rear: 2.0mm

Output Cable

4mm² (IEC) 12AWG (UL)

Length Customizable

No. of Half-cells

144 (2X72)

Junction Box

IP 68, 3 diodes

Packaging

31 pcs/pallet, 682 pcs/40' HQ

Container

Maximum System Voltage

1500V DC (IEC)

Operational Temperature

-40°C~+85°C

Maximum Series Fuse Rating

20A

Front Side Maximum Static Loading

5400Pa

Rear Side Maximum Static Loading

2400Pa

Nominal Operation Cell Temperature

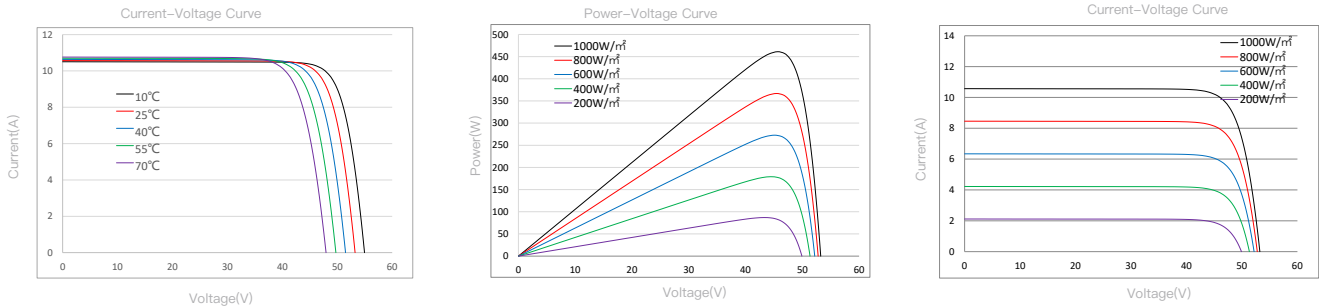
43±2°C

Bifaciality

80%±5%

(Pmax, rear/Rated Pmax, front)

I-V CURVE (REFERENCE TO 460W)



ELECTRICAL PARAMETERS AT STC

Module Type	SS6-72HD 455N	SS6-72HD 460N	SS6-72HD 465N	SS6-72HD 470N	SS6-72HD 475N	SS6-72HD 480N
Rated Maximum Power (Pmax/W)	455	460	465	470	475	480
Open Circuit Voltage (Voc/V)	53.11	53.24	53.37	53.50	53.63	53.76
Maximum Power Voltage (Vmp/V)	45.04	45.24	45.44	45.66	45.86	46.08
Short Circuit Current (Isc/A)	10.51	10.57	10.63	10.69	10.75	10.81
Maximum Power Current (Imp/A)	10.12	10.18	10.24	10.30	10.36	10.43
Module Efficiency (%)	20.90%	21.13%	21.36%	21.59%	21.82%	22.05%
Power Tolerance	0~+5W					
Temperature Coefficient of Isc (α _{Isc})	+0.04%/°C					
Temperature Coefficient of Voc (β _{Voc})	-0.24%/°C					
Temperature Coefficient of Pmax (γ _{Pmp})	-0.26%/°C					

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 470W)

Backside Power Gain	5%	10%	20%	25%	30%
Rated Max Power (Pmax/W)	494	517	567	588	611
Open Circuit Voltage (Voc/V)	53.5	53.5	53.5	53.5	53.5
Maximum Power Voltage (Vmp/V)	45.66	45.66	45.66	45.66	45.66
Short Circuit Current (Isc/A)	11.22	11.76	12.83	13.36	13.90
Maximum Power Current (Imp/A)	10.82	11.33	12.36	12.88	13.39

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5