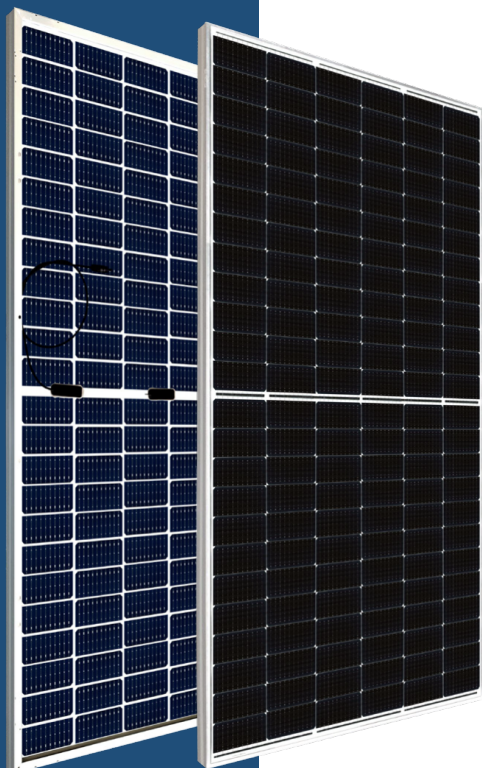


# SATURN

Monocrystal PV Module Series

SS6-72HD 430W~455M



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



Gallium-doped silicon cell technology makes PV module first year power degradation <2%



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.



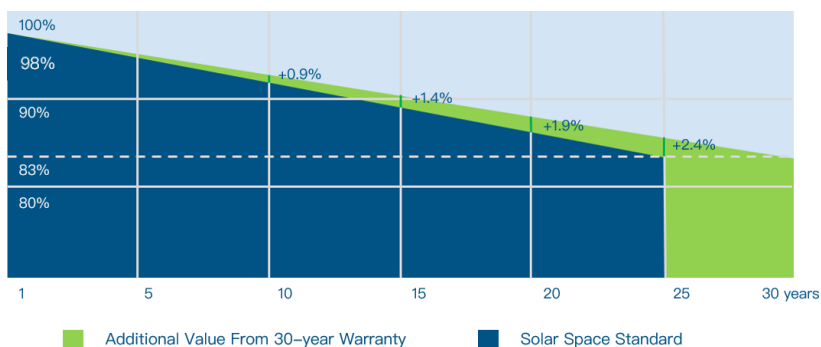
Severe weather resilience: certified to withstand wind load (2400 pascal) and snow load (5400 pascal)

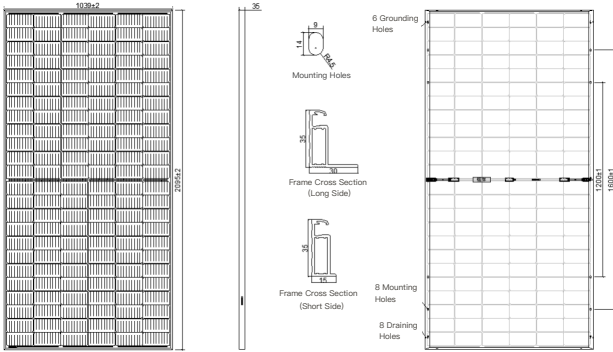


Bifacial technology enables additional energy harvesting from rear side

## 30-YEAR LINEAR PERFORMANCE WARRANTY

- 12-year product warranty
- 0.5% annual degradation over 30 years





**Cell Type**  
Mono PERC 166\*166mm

**Weight**  
27.5±3kg

**Dimensions**  
2095±2mmX1039±2mmX35±1mm

**Glass**  
Front: 2.0mm Rear: 2.0mm

**Output Cable**  
4mm<sup>2</sup> (IEC) 12AWG (UL)  
Length Customizable

**No. of Half-cells**  
144 (6X24)

**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**  
25A

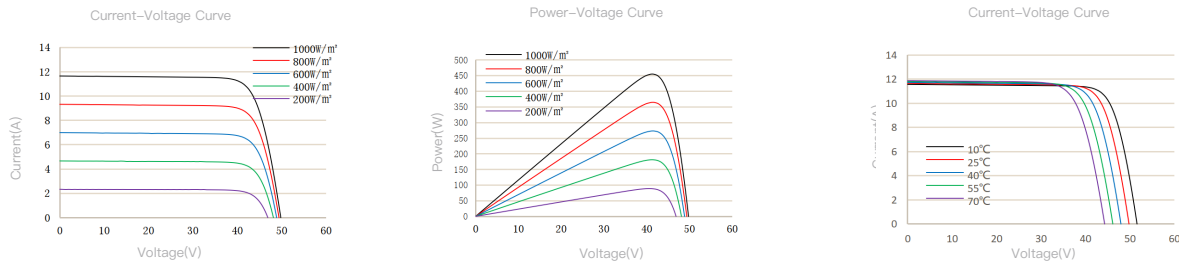
**Front Side Maximum Static Loading**  
5400Pa

**Rear Side Maximum Static Loading**  
2400Pa

**Nominal Operation Cell Temperature**  
45±2°C

**Bifaciality**  
70%±10%  
(P<sub>max</sub>, rear/Rated P<sub>max</sub>, front)

## I-V CURVE (REFERENCE TO 455W)



## ELECTRICAL PARAMETERS AT STC

Module Type	SS6-72HD 430M	SS6-72HD 435M	SS6-72HD 440M	SS6-72HD 445M	SS6-72HD 450M	SS6-72HD 455M
Rated Maximum Power (P <sub>max</sub> /W)	430	435	440	445	450	455
Open Circuit Voltage (V <sub>oc</sub> /V)	48.90	49.10	49.20	49.40	49.60	49.80
Maximum Power Voltage (V <sub>mp</sub> /V)	40.60	40.80	41.00	41.20	41.40	41.60
Short Circuit Current (I <sub>sc</sub> /A)	11.30	11.36	11.45	11.52	11.58	11.65
Maximum Power Current (I <sub>mp</sub> /A)	10.60	10.66	10.73	10.80	10.87	10.93
Module Efficiency (%)	19.80%	20.00%	20.20%	20.50%	20.70%	20.90%
Power Tolerance	0~+5W					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.044%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.272%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.350%/°C					

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 445W)

Backside Power Gain	5%	10%	15%	20%	25%
Rated Max Power (P <sub>max</sub> /W)	467	490	512	534	556
Open Circuit Voltage (V <sub>oc</sub> /V)	49.4	49.4	49.50	49.50	49.5
Maximum Power Voltage (V <sub>mp</sub> /V)	41.20	41.20	41.30	41.30	41.30
Short Circuit Current (I <sub>sc</sub> /A)	12.09	12.67	13.24	13.82	14.40
Maximum Power Current (I <sub>mp</sub> /A)	11.34	11.88	12.42	12.96	13.50

STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM1.5G