

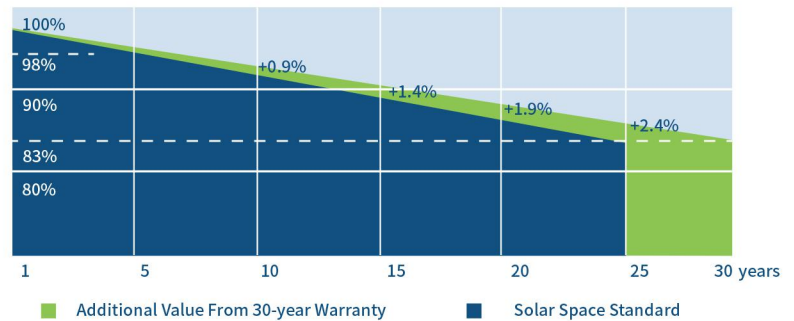
# SATURN

## MONOCRYSTAL PV MODULE SERIES

### SS8-72HD 530-555M

### 30-YEAR LINEAR PERFORMANCE WARRANTY

● 12-year product warranty ● 30-year linear output power warranty



## KEY FEATURES



10-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



Bifacial technology enables additional energy harvesting from rear side



Optimized electrical design with lower operating current improves shading response

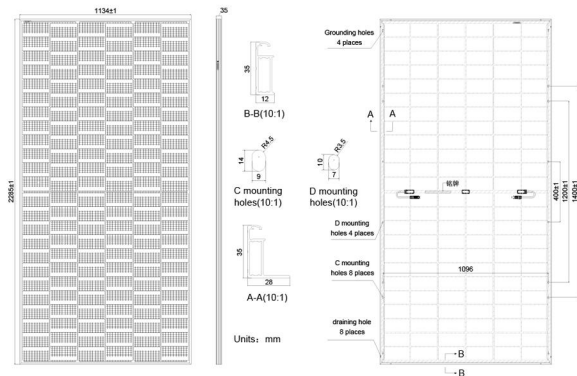


Advance glass and cell surface textured design ensure excellent performance in low-light environment.



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

## ENGINEERING DESIGN



Remark: customized frame color and cable length available upon request.

## SPECIFICATIONS

Cell	Mono PERC
Weight	31.6kg±3%
Dimensions	2285X1134X35mm
Cable Diameter	4mm2(IEC),12AWG(UL)
No. of cells	144(6x24)
Junction Box	IP68, 3 diodes
Packaging	31 pcs/Pallet , 620 pcs/40ft container
Front Glass	2.0mm
Back Glass	2.0mm

## ELECTRICAL PARAMETERS AT STC

Module Type	SS8-72HD -530M	SS8-72HD -535M	SS8-72HD -540M	SS8-72HD -545M	SS8-72HD -550M	SS8-72HD -555M
Rated Maximum Power (Pmax) [W]	530	535	540	545	550	555
Open Circuit Voltage (Voc) [V]	49.31	49.44	49.61	49.76	49.91	50.03
Maximum Power Voltage (Vmp) [V]	41.32	41.46	41.65	41.81	41.97	42.15
Short Circuit Current (Isc) [A]	13.73	13.78	13.85	13.92	14.02	14.07
Maximum Power Current (Imp) [A]	12.83	12.90	12.97	13.04	13.10	13.17
Module Efficiency[%]	20.45%	20.65%	20.84%	21.03%	21.23%	21.42%
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(a_Isc)	+0.045%/° C					
Temperature Coefficient of Voc (β -Voc)	-0.275%/° C					
Temperature Coefficient of Pmax (Y_Pmp)	-0.350%/° C					

STC

Irradiance 1000W/m<sup>2</sup>, cell temperature 25° C, AM1.5G

Remark: Electrical data in this catalog do refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL SPECIFICATIONS( Reference to 530W )

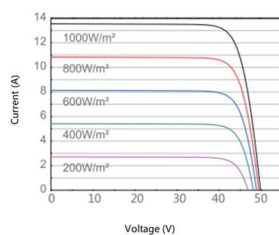
	5%	10%	15%	20%	25%
Power gain	5%	10%	15%	20%	25%
Rated Max Power (Pmax) [W]	557	583	610	636	663
Open Circuit Voltage (Voc)[V]	49.32	49.32	49.32	49.42	49.42
Max Power Voltage (Vmp) [V]	41.33	41.33	41.33	41.43	41.43
Short Circuit Current (Isc)[A]	14.39	15.08	15.77	16.45	17.13
Max Power Current (Imp)x [A]	13.47	14.11	14.75	15.39	16.04

## OPERATING CONDITIONS

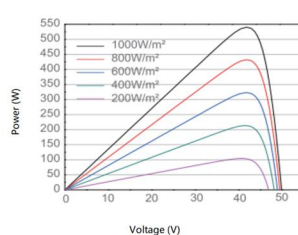
Max System Voltage	1500V DC (IEC)
Operating Temperature	-40°C~+85°C
Max Series Fuse Rating	25A
Max Static Load,Front	5400Pa
Max Static Load,Back	2400Pa
NOCT	45±2°C
Bifaciality	70±10%
Bifaciality=Pmax,rear/Rated Pmax,front	

## CHARACTERISTICS

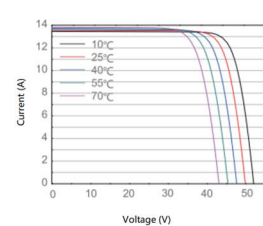
Current-Voltage Curve SS8-72HD-540M



Power-Voltage Curve SS8-72HD-540M



Current-Voltage Curve SS8-72HD-540M



STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM 1.5G  
NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM1.5G Wind Speed 1m/s