

## SP290W-30V MONOCRYSTALLINE

### Key features:



**PID Free Module:**  
Anti-PID cell and encapsulation technology  
Frameless module requires no module grounding which may PID



**Higher Lifetime Power Yield:**  
+0.5% annual power degradation  
30 year linear power warranty



**Saving BOS Cost:**  
Designed for high voltage systems of up to 1500 VDC, saving BOS cost



**Improved Durability and Reliability:**  
Dual glass reduces micro-cracking, snail trails, corrosion caused by moisture, salt, salt mist, acid, alkali, etc.



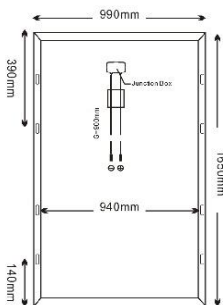
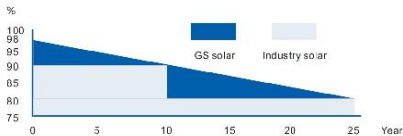
**Less Maintenance Requirement:**  
Reduced soiling and snow coverage requires less maintenance and enhances fire safety



**Aesthetically Pleasing Design:**  
White back sheet maximizes module efficiency up to 16.84% (Si-poly max. output 275W). Transparent back sheet increases light transmission, ideal for installations requiring light to pass through



**Strongened Mechanical Support:**  
5400 Pa snow load 2400 Pa wind load



Module Diagram

## Module Models

### Electrical Specifications

Model	SP290W-30V
Peak power(Pmax)	290W
Cell Efficiency	20.04%
Max. power volt.(Vmp)	31.45V
Max. power current(Imp)	9.22A
Open circuit volt.(Voc)	38.8V
Short circuit current(Isc)	9.59A
Power Tolerance	0~+3%
Max. system voltage	1000V
Series fuse rating(A)	15
Number of bypass diode	3
Operating temperature	-40°C to +85°C
Maximum system voltage	1000V DC

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

### Mechanical Characteristics

Dimensions	1650*990*40mm
Weight	17.4kg
Solar Cells	60 cell in series
Cable	LAPP (4mm <sup>2</sup> )
lengths	900mm(-) and 900mm(+)
Connector	Mc4 Plug Type
Glass type	High transmits, Low Iron, 3.2mm Tempered Glass
Frame	Aluminium-alloy