

## SP100W-18V MONO CRYSTALLINE

### 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 1000 VDC saving BOS cost



**Improved Durability and Reliability:**  
Dual glass reduces micro-cracking, wear trails, corrosion resistance  
Modular MPPT, self-heal, 40°C, 20kV, etc.



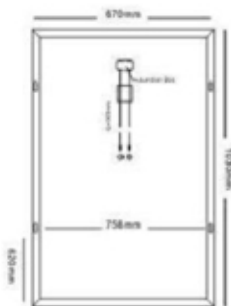
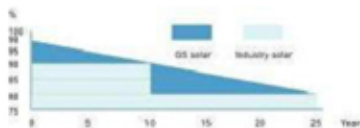
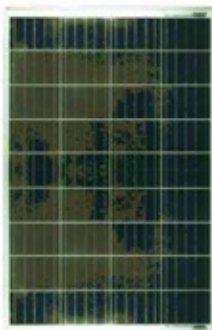
**Less Maintenance Requirement:**  
Reduced soiling and snow coverage requires less maintenance and enhances fire safety



**Aesthetically Pleasing Design:**  
White back sheet maximizes module efficiency up to 30.84% (STC only)  
Anti-reflection (AR) transparent back sheet promotes light transmission, ideal for installation requiring light to pass through



**Strengthened Mechanical Support:**  
2400 Pa surge load, 2400 Pa wind load



Module Diagram

## Module Models

### Electrical Specifications

Model	SP100W-18V
Peak power(Pmax)	100W
Cell Efficiency	16.95%
Max. power volt. (Vmp)	17.8V
Max. power current(Imp)	5.62A
Open circuit volt. (Voc)	21.8V
Short circuit current(Isc)	6.05A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	10
Number of bypass diode	2
Operating temperature	-4°C to +85°C
Maximum system voltage	1000V DC
3TC irradiance 1000W/m <sup>2</sup> , Module temperature 25°C, AM=1.5	

### Mechanical Characteristics

Dimensions	1030*670*30mm
Weight	7.2kg
Solar Cells	36 cell in series
Cable	LAPP (2.5mm <sup>2</sup> )
lengths	700mm(-) and 700mm(+)
Connector	Mc4 Plug Type
Glass type	High transmits, Low Iron, 3.2mm Tempered Glass
Frame	Aluminium-alloy