



# SP50W-18V

## MONO & POLYCRYSTALLINE

### 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, small trails, corrosion caused by moisture, sand, salt mist, acid, alkali, etc.



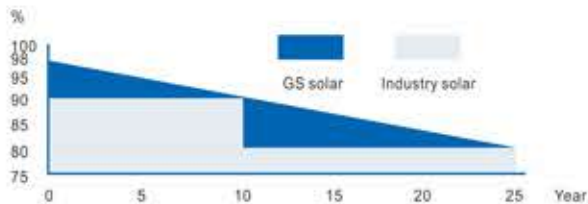
**Less Maintenance Requirement:**  
Reduced soiling and snow coverage requires less maintenance and enhances fire safety



**Aesthetically Pleasing Design:**  
white back sheet maximizes module efficiency up to 16.84% (60-poly max. output 275W); Transparent back sheet increases light transmission, ideal for installations requiring light to pass through



**Strengthened Mechanical Support:**  
5400 Pa snow load, 2400 Pa wind load



## Module Models

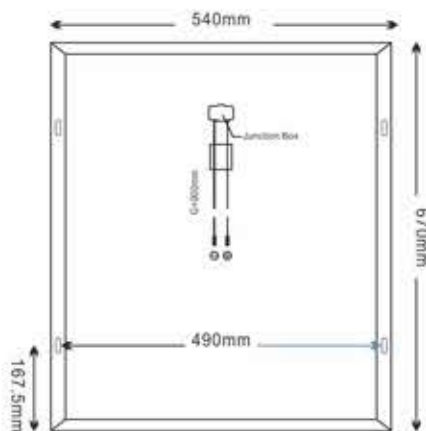
### Electrical Specifications

Model	SP50W-18V
Peak power (Pmax)	50W
Cell Efficiency	16.93 %
Max. power volt. (Vmp)	17.8V
Max. power current (Imp)	2.81A
Open circuit volt. (Voc)	21.8V
Short circuit current (Isc)	3.05A
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

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

### Mechanical Characteristics

Dimensions	540*670*30mm
Weight	3.8kg
Solar Cells	36 cell in series
Glass type	High transmits, Low Iron, 3.2mm Tempered Glass
Frame	Aluminium-alloy



Module Diagram