

# SOLAR PANEL

## SP80W-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, snail 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



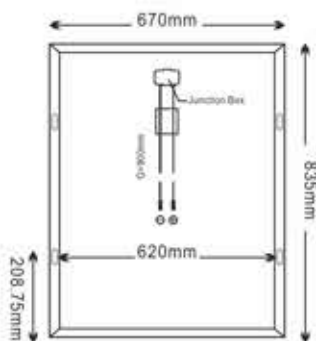
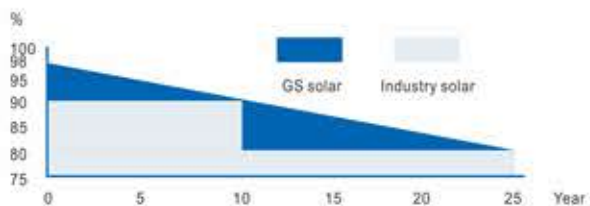
#### Aesthetically Pleasing Design:

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 Diagram

## Module Models

### Electrical Specifications

Model	SP80W-18V
Peak power(Pmax)	80W
Cell Efficiency	17.04%
Max. power volt.(Vmp)	17.5V
Max. power current(Imp)	4.58A
Open circuit volt.(Voc)	21.8V
Short circuit current(Isc)	4.93A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	15
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	835*670*30mm
Weight	5.7kg
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