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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

SOLAR PANEL

SP40W&30W-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 18.84% (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	SP40W-18V	SP30W-18V
Peak power(Pmax)	40W	30W
Cell Efficiency	16.93%	17.04%
Max. power volt.(Vmp)	17.5V	17.8V
Max. power current(Imp)	2.29A	1.69A
Open circuit volt.(Voc)	21.8V	21.8V
Short circuit current(Isc)	2.46A	1.85A
Power Tolerance	±3%	±3%
Max. system voltage	1000V	1000V
Series fuse rating(A)	12	10
Operating temperature	-4°C to +85°C	
Maximum system voltage	1000V DC	
STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5		

Mechanical Characteristics

Dimensions	425*670*25mm	650*350*25mm
Weight	3.4kg	2.3kg
Solar Cells	36 cell in series	
Glass type	High transmits, Low Iron, 3.2mm Tempered Glass	
Frame	Aluminium-alloy	