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Solar Panel Guide

Specification Data Sheet

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

SOLAR PANEL

SP310W-36V 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



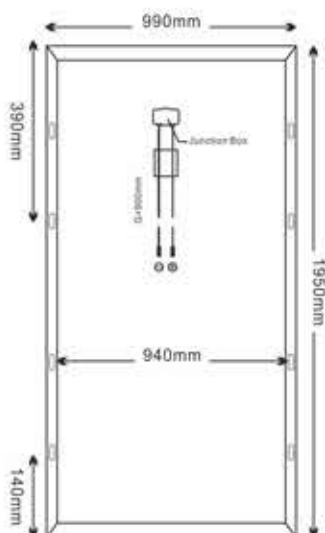
Aesthetically Pleasing Design:

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	SP310W-36V
Peak power(Pmax)	310W
Cell Efficiency	17.04%
Max. power volt.(Vmp)	35.8V
Max. power current(Imp)	8.6A
Open circuit volt.(Voc)	44V
Short circuit current(Isc)	9.11A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	15
Number of bypass diode	6
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	1950*990*40mm
Weight	21.4kg
Solar Cells	72 cell in series
Cable	LAPP (4mm ²)
lengths	900mm(-) and 900mm(+)
Connector	Mc4 Plug Type
Glass type	High transmits, Low Iron, 3.2mm Tempered Glass
Frame	Aluminium-alloy