

Photovoltaic (PV) solar panels

Electricity - CE & ISO 9000 certified

Photovoltaic solar panels convert sunlight into useful electricity.

ZEDfabric supplies high quality mono-crystalline silicon cell PV panels in two sizes: 83W and 180W.

The laminated cells are mounted in an anodised Aluminium frame. On the rear of the module is a waterproof junction box with connection cables.

We are also working with suppliers in China to develop our own building integrated glass laminate PV panes.



Specification

180W panel

Maximum power:	180Wp
180Wp Dimensions:	1581x809x50mm
Number of cells (Pcs):	72
Maximum power voltage (V):	36.31
Maximum power current (A):	4.98
Open circuit voltage (V):	44.97
Short circuit current (A):	5.23
Maximum system voltage (V)	1000
Temperature range:	-40°C to +80°C
Tolerance Wattage (e.g. +/-3°C):	+/-5°C
Surface Maximum Load Capacity:	60m/s(200kg/sqm)
Available Hail Load:	steel ball fall down from 1m
height	
Weight per piece (kg):	16.3
Junction Box Type:	PV-RH0301 (TUV)
Length of cables (mm):	900mm
Cell Efficiency:	>15.2%
Module Efficiency:	>15%
Output tolerance:	+/-5%
Frame (Materials, corners, etc):	Aluminium
Standard Test Conditions:	AM1.5 100mW/cm ² 25°C

Warranty:

2 years product warranty and 20 years 80% of power

83W panel

Maximum power:	83Wp
Dimensions:	1195 x 542 x 34mm
Number of cells (Pcs):	36
Maximum power voltage (V):	17.2
Maximum power current (A):	4.65
Open circuit voltage (V):	21.6
Short circuit current (A):	4.97
Maximum system voltage (V):	715
Temperature Range:	-40°C to +80°C
Tolerance Wattage (e.g. +/-3%):	+/-5%
Surface Maximum Load Capacity:	60m/s(200kg/sq.m)
Allowable Hail Load:	steel ball fall down from 1m height
Weight per piece (kg):	8
Junction Box Type:	PV-RH0301(TUV)
Length of Cables (mm)	900mm
Cell Efficiency (%):	>13.5%
Module Efficiency (%):	>13.3%
Output tolerance (%):	+/-5%
Frame (Material, Corners, etc.):	Aluminum
Standard Test Conditions:	AM1.5 100mW/cm ² 25°C

Warranty:

2 years product warranty and 20years 80% of power