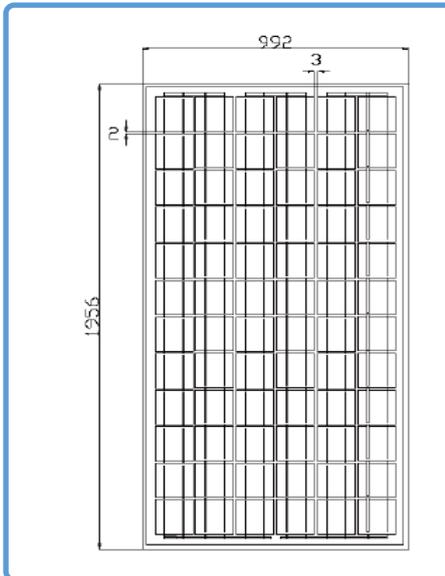


ESPECA Solar Panel is the perfect fit for off-grid and on-grid systems. It has 72 cells and produces 310W<sub>p</sub> at 37.6V. Its low temperature coefficient make it ideal solution for hot regions.



### PRODUCT GUARANTEE:

- 25 years linear performance warranty.
- 10 years warranty on materials and workmanship.
- Product liability insurance.
- Errors & Omissions insurance.
- Salt corrosion guarantee.

### ELECTICAL CHARACTERISTICS (STC\*)

TYPE	Poly	310P
Nominal Power(P <sub>max</sub> )	W	310
Voltage at P <sub>max</sub> (V <sub>mp</sub> )	V	37.6
current at P <sub>max</sub> (I <sub>mp</sub> )	A	8.43
Open Circuit Voltage(V <sub>oc</sub> )	M	44.3
Short Circuit Current (I <sub>sc</sub> )	A	8.8
Power Tolerance	%	0-3
Maximum System Voltage		1000
Module Efficiency	%	15.95%

STC• (Standard Test Conditions) irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5 Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/-3%

### ELECTRICAL PERFORMANCE AT (NOTC)

TYPE	Poly	310P
Power Output (P <sub>max</sub> )	W	224
Voltage at P <sub>max</sub> (V <sub>mp</sub> )	V	33.1
Current at P <sub>max</sub> (I <sub>mp</sub> )	A	6.81
Open Circuit Voltage(V <sub>oc</sub> )	M	41.7
Short Circuit Current (I <sub>sc</sub> )	A	7.03

NOTC : Impatience 800w/m<sup>2</sup>, Module Temperature 45±2°C, Wind Speed 1m/s Best in Class AAA solar simulation (IEC 60904-9) used, power measurement uncertainty is within +/-3%

### TEMPERATURE CHARACTERISTICS

TYPE	310W <sub>p</sub>
NOCT	45±2 °C
Temperature Coefficient of P <sub>max</sub>	-0.45 % /°C
Temperature Coefficient of V <sub>oc</sub>	-0.32%/°C
Temperature Coefficient of I <sub>sc</sub>	0.06%/°C
Maximum Series Fuse Rating	15A
Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 60 °C

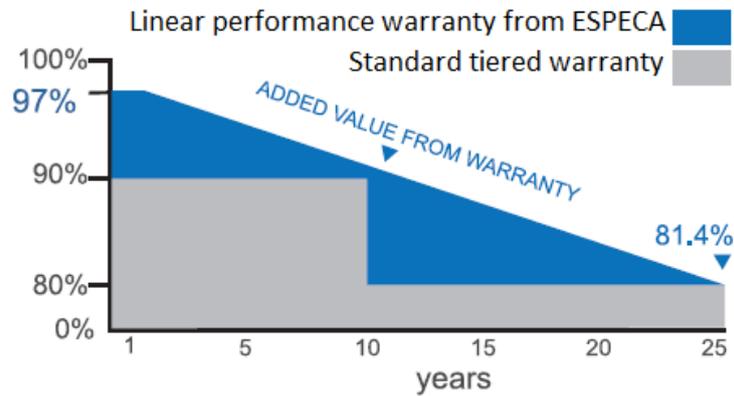
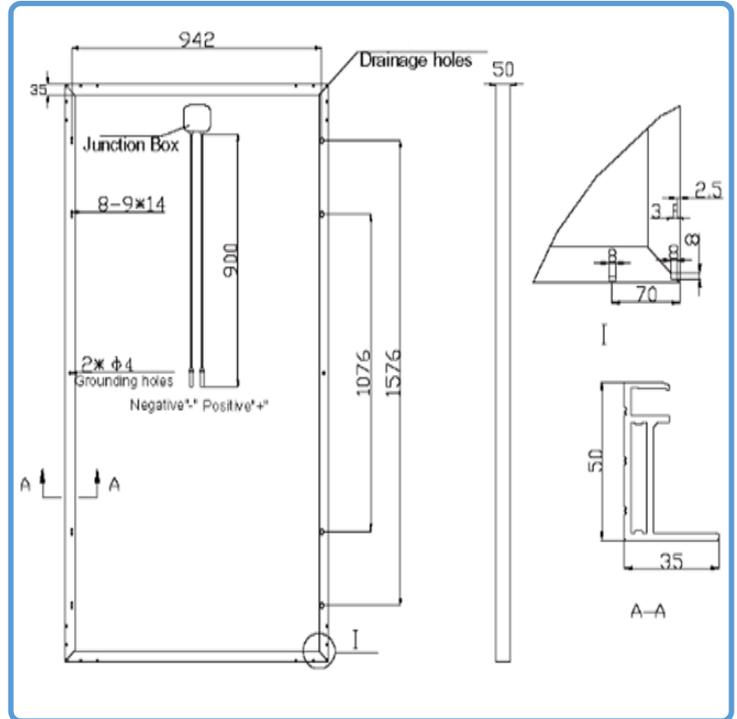
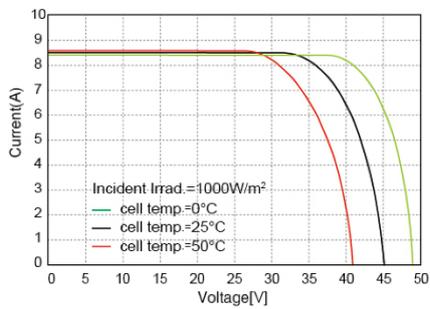
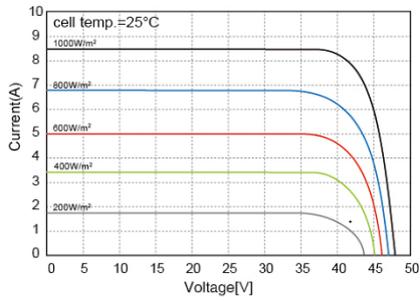
### OPTIONS AVAILABLE

Transparent	Frameless
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### SPECIFICATIONS

Dimension A*B*C (mm)	1956*992*45
Weight (Kg)	23.5
Glass Type	Tempered glass / AR coating
Glass Thickness	3.2mm/4.0mm
Cable Length (mm)	1100
Type of Connector	MC4 or compatible connector

## IV Curves



## CERTIFICATION:

