

## Features

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- ※ High efficient mono-crystalline cells connected in series
- ※ Superior manufacturing technology to meet high standard of module conversion efficiency
- ※ IP65 or 67 water proof junction box is available for long term weather endurance
- ※ Salt mist, ammonia and blowing sand resistance, apply to seaside, farm and desert areas
- ※ Positive power tolerance up to 5w delivers high power generation
- ※ Selective materials and rigid process effectively control Potential Induced Degradation (PID)
- ※ Total quality control and complete traceability of Material by Shop Floor Control (SFC)
- ※ Outstanding electrical performance under high temperature and low-irradiance

## Warranty

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- ❖ 10 Years for Product Workmanship and Materials
- ❖ 25 Years Power Performance:
  - 12 years for 90% minimum power output
  - 25 years for 80% minimum power output

## Certification

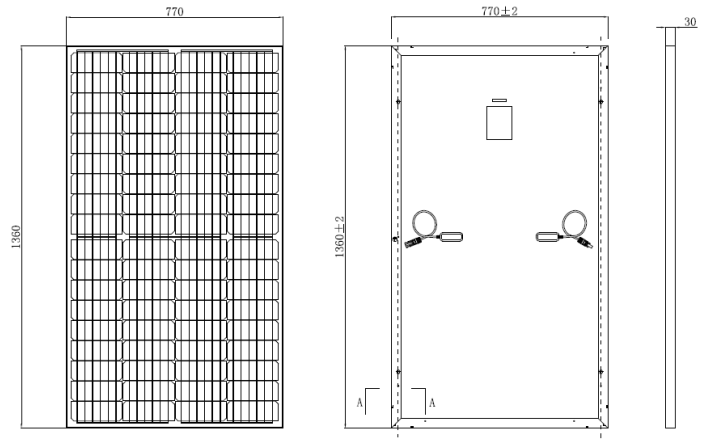
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## Physical Specification



- 1, Tempered Glass
- 2, EVA(Ethylene Vinyl Acetate)
- 3, Solar Cells
- 4, EVA(Ethylene Vinyl Acetate)
- 5, Back sheet



## Electrical Specification

Model Type	Unit	ESM 200
Maximum Power (Pmax)	W	200
Module Efficiency	%	19.1
Open Circuit Voltage (Voc)	V	22.32
Short Circuit Current (Isc)	A	11.25
Maximum Power Voltage (Vmp)	V	18.20
Maximum Power Current (Imp)	A	10.99
Maximum System Voltage	V	1000 (TUV)
Maximum Series Fuse Rating (A)	A	15
Power Tolerance		0 ~ +5W

Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C. The NOCT is obtained under the Test Conditions: 800W/m<sup>2</sup>, 20°C ambient temperature, AM 1.5 Spectrum, 1m/s wind speed.

## Mechanical Specification

Module Dimension (mm)	1360x770x30mm
Cell Type and Size	Mono-crystalline, 182*70mm
Number of Cell	72(4*9*2)
Glass Thickness (mm)	3.2
Weight (kgs)	10.5
Maximum Load (TUV) (Pascal)	5400/2400
Junction Box	IP65 or IP 67 rated
Cable length	300mm, 1x2.5mm <sup>2</sup>
Loading:	1472pcs/40'HQ

## Temperature Characteristics

Nominal Operating Cell Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45 +/- 2 °C
Temperature Coefficient ( Pmax)	-0.387% / °C
Temperature Coefficient ( Voc )	-0.282% / °C
Temperature Coefficient ( Isc )	0.041% / °C