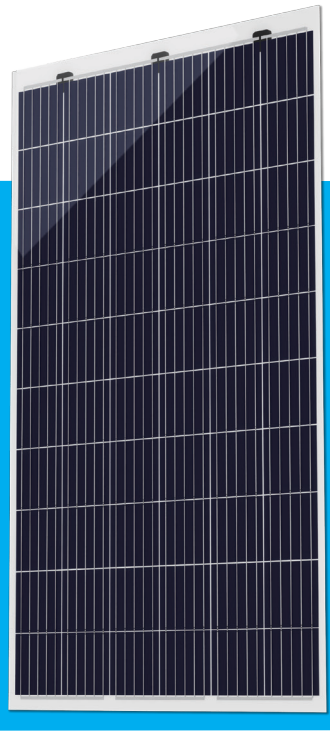
瑞元鼎泰
RaySolar

Adhesive Solar greenhouse series



60CELLS 5BB(10%)
POLY-CRYSTAL MODULES

265-275W
POWER OUTPUT

16.5%
MAXIMUM EFFICIENCY

30 YEARS linear performance warranty

10 YEARS product warranty

Qingdao RaySolar New Energy Co.,Ltd.(RaySolar), funded in February,2012 and located in Jimo Solar Industrial Park Qingdao city with an area of 400 mu, is a high and new technology enterprise integrating R&D, production and sales. RaySolar is mainly engaged in production and sales of double-glass solar modules, as well as development and construction of distributed power stations.

RaySolar focuses on production and sales of double-glass solar modules and is equipped with automatic production lines with a total annual capacity of 500MW. In addition, its products have obtained the Double-Glass Top-Runner Certification, TüV, UL, China Compulsory Certification (CCC) of the construction industry, etc.

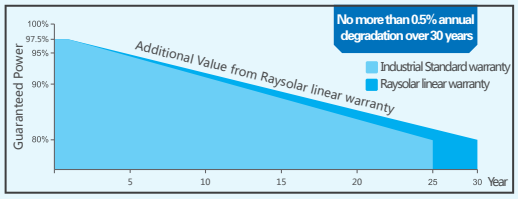
RaySolar adheres to the development concept of "Product-Centric and Service-Oriented", and it is in alliance with upstream suppliers, terminal construction contractors, and back-end service (operation and maintenance) providers to create an outstanding "ecosystem" that can demonstrate the advantages of double glass. Meanwhile, Raysolar will provide the financing platform for the customers, aiming at achieving theclosed-loop promotion of the PV industry chain through the financial supply chain.

Solar makes life better!

Certification

TÜV NORD · CQC · UL · TÜV SÜD · CE · INMETRO · ISO

Linear Performance Warranty



Professional module type design for adhesive installation

- Special design to meet the requirements of solar greenhouse; excellent transparency and waterproof performance.

Excellent durability reliability performance

- Excellent PID resistant.
- No micro-cracks, free of snail trails.

Excellent withstand challenging environmental conditions and safety performance

- Resistant to high temperature and humidity, sand, acid and alkali.
- 5400 Pa snow load, 2400 Pa wind load.
- Passed hail test with 35mm hail stones at 97 km/h.
- Class A fireproofing rating.

High return on investment

- 1500 V system voltage reduces BOS costs.
- 0.5% annual degradation, 30 year linear warranty, more power output
- Frameless design, less dust or snow pilling up, reduces O&M cost

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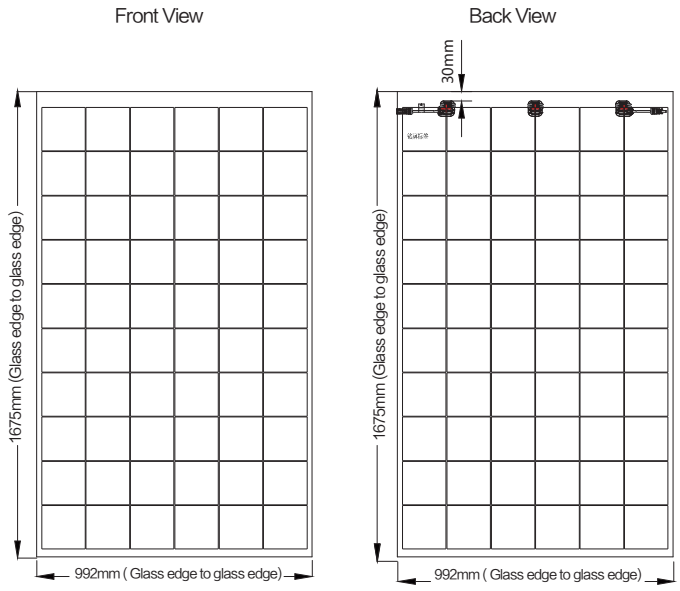
Engineering drawing



Mechanical Specifications

Cell Type	Poly crystalline (156.75mm*156.75mm)
Solar Cells	60(6*10)
Module Dimension [mm]	1675*992*6
Weight [Kg]	23.0
Front Glass [mm]	2.5 (Semi tempered coated glass)
Interlayer	EVA/POE/PVB
Back Glass [mm]	2.5 (Semi tempered glass)
Junction Box	IP67 Rated, 3 by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Frame	No frame
Maximum Load Capacity [Pa]	2400(wind load)/ 5400(snow load)

Electrical Characteristics

			DP60-265	DP60-270	DP60-275
STC: Air Mass AM1.5,Irradiance 1000W/m² Cell temperature 25℃	Maximum Power at STC [Pmax]	[W]	265	270	275
	Open Circuit Voltage [Voc]	[V]	38.00	38.07	38.20
	Short Circuit Current [Isc]	[A]	9.04	9.16	9.34
	Voltage at Maximum Power point[Vm]	[V]	31.05	31.15	31.23
	Current at Maximum Power point[Im]	[A]	8.54	8.67	8.81
	Power Tolerance	[%]	0~+3%		
	Module Efficiency	[%]	15.9	16.2	16.5
NOCT: Air Mass AM1.5, Irradiance 800W/m² Ambient temperature 20°C, wind speed 1m/s.	Maximum Power at NOCT [Pmax]	[W]	196	200	204
	Open Circuit Voltage [Voc]	[V]	35.14	35.20	35.32
	Short Circuit Current [Isc]	[A]	7.29	7.39	7.53
	Voltage at Maximum Power point[Vm]	[V]	28.22	28.31	28.38
	Current at Maximum Power point[Im]	[A]	6.95	7.06	7.17
	Power Tolerance	[%]	0~+3%		

Scope of Work

Maximum System Voltage	[V]	1000 DC(IEC)or1500 DC(IEC)
Operating Temperature	[℃]	-40~+85
Nominal Operating Cell Temperature	[℃]	45±3
Maximum rated current	[A]	15

Temperature Coefficients

Temperature Coefficient of Pmax	[%/℃]	-0.42
Temperature Coefficient of Voc	[%/℃]	-0.33
Temperature Coefficient of Isc	[%/℃]	0.04

Package Configuration

per box 36 pieces	40" HQ 936 pieces

Electrical curves