

72CELLS 5BB POLY-CRYSTAL MODULES 315-335W POWER OUTPUT 17.1% MAXIMUM EFFICIENCY



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 doubleglass 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, T ü V, 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!



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

Flexible cells layout design to meet diffirent needs of transmittance

• Flexible solar cell lay out, satisfy different application demand





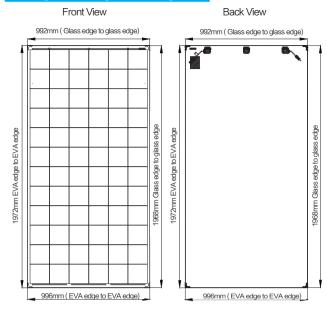
Qingdao Raysolar New Energy Co.,Ltd

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Engineering drawing



Mechanical Specifications

Cell Type	Poly crystalline (156.75mm*156.75mm)
Solar Cells	72(6*12)
Module Dimension [mm]	1968*992*6 (1972*996*6 with edge banding)
Weight [Kg]	27.5
Front Glass [mm]	2.5 (Low iron semi tempered coated glass)
Interlayer	EVA/POE/PVB
Back Glass [mm]	2.5 (Float semi tempered glass)
Junction Box	IP67 Rated, 3 by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Frame	No frame
Maximum Load	2400(wind load)/
Capacity [Pa]	5400(snow load)

Electrical Characteristics

			DP72-315	DP72-320	DP72-325	DP72-330	DP72-335	
STC: Air Mass AM1.5,Ir- radiance 1000W/m ² Cell temperature 25°C	Maximum Power at STC [Pmax]	[W]	315	320	325	330	335	
	Open Circuit Voltage [Voc]	[V]	45.10	45.50	45.90	46.12	46.31	
	Short Circuit Current [Isc]	[A]	9.07	9.09	9.11	9.16	9.27	
	Voltage at Maximum Power point[Vm]	[V]	37.14	37.32	37.50	37.68	37.86	
	Current at Maximum Power point[Im]	[A]	8.49	8.58	8.67	8.76	8.85	
	Power Tolerance	[%]	0~+3%					
	Module Efficiency	[%]	16.1	16.3	16.6	16.9	17.1	
NOCT: Air Mass AM1.5, Ir- radiance 800W/m ² Ambient tempera- ture 20°C, wind speed 1m/s.	Maximum Power at NOCT [Pmax]	[W]	233	237	241	244	248	
	Open Circuit Voltage [Voc]	[V]	41.70	42.07	42.44	42.65	42.82	
	Short Circuit Current [Isc]	[A]	7.31	7.33	7.35	7.39	7.48	
	Voltage at Maximum Power point[Vm]	[V]	33.75	33.92	34.08	34.24	34.41	
	Current at Maximum Power point[Im]	[A]	6.91	6.99	7.06	7.13	7.21	
Speed 111/3.	Power Tolerance	[%]	0~+3%					

Scope of Work

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

Temperature Coefficients

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

Package Configuration

per box 30 pieces

40" HQ 660 pieces



