Double Glass BIPV Module

Traditional polymer back sheet is replaced by tempered glass, which brings higher reliability and better anti-corrosiveness to the module.
Especially fitted to endure harsh environment, like desert and seaside

Billion Power

10% Transparent 275W-285W Mono Crystalline Module

Product Features:

1.Significant Effect of PID Resistance

The qualified film and frameless design can ensure module have significant effect of PID resistance

2.Good performance of Fireproofing

Substrate made of inorganic material instead of traditional macromolecule material, which can dramatically decrease the risk of fire

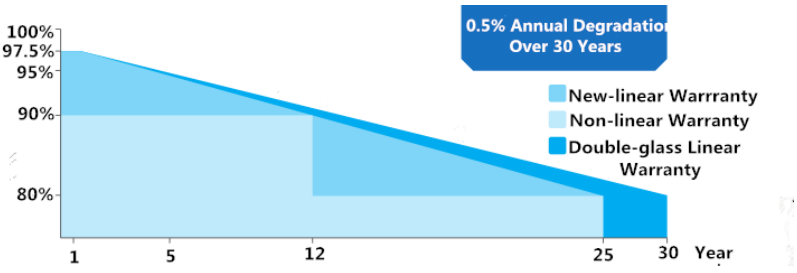
3.Good Performance of Resistance to High Temperature, Humidity, Sand and Salt Fog

Substrate made of inorganic material can ensure module work with long-term stability in tough environment

4 Good Performance of Resistance to Snow and Wind Pressure

It can stand 2400Pa wind and 5400Pa snow pressure effectively without cell microcrack

Quality assured by 30-year linear power output



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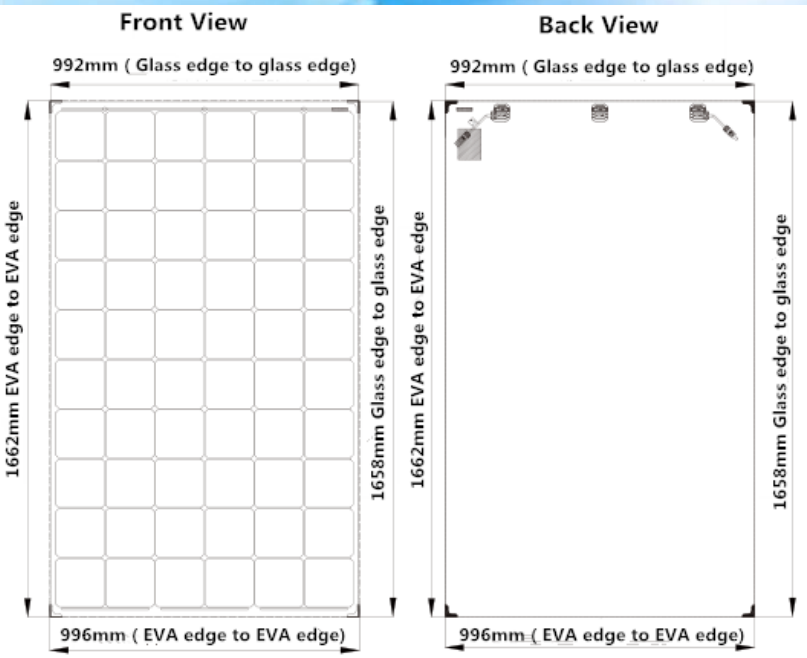

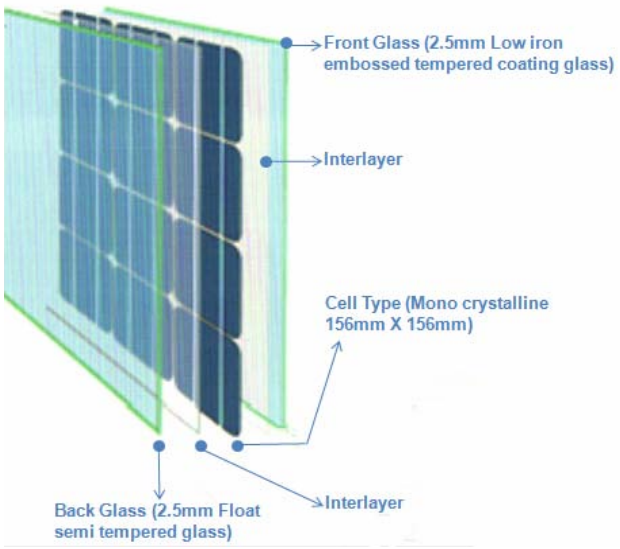

Mechanical Specifications

Cell Type	Mono crystalline (156mm * 156mm)
Solar Cells	60 (6 * 10)
Module Dimension [mm]	1658 * 992 * 6 (1662 * 996 * 6 with edge banding)
Weight [kg]	23.0
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 MC-4(or equivalent)
Frame	No frame
Maximum Load Capacity [Pa]	2400（wind load） / 5400（snow load）

Electrical Characteristics

Parameter	BP-M-D275C	BP-M-D280C	BP-M-D285C
Maximum Power at STC [Pmax] [W]	275	280	285
Open Circuit Voltage [Voc] [V]	38.98	39.15	39.25
Short Circuit Current [Isc] [A]	9.00	9.05	9.09
Voltage at Maximum Power point [Vm] [V]	32.20	32.35	32.50
Current at Maximum Power point[Im] [A]	8.54	8.65	8.77
Power Tolerance [%]	0~+3%		
Module Efficiency	16.7	17.0	17.3
Maximum Power at STC [Pmax] [W]	204	208	211
Open Circuit Voltage [Voc] [V]	35.95	36.10	36.25
Short Circuit Current [Isc] [A]	7.39	7.46	7.50
Voltage at Maximum Power point [Vm] [V]	29.10	29.25	29.40
Current at Maximum Power point [Im] [A]	7.02	7.11	7.18
Power Tolerance [%]	0~+3%		

Standard Test Conditions (STC):Air Mass AM1.5,Irradiance 1000W/m Cell temperature 25° C

NOCT: Air Mass AM1.5, Irradiance 800W/m Ambient temperature 20° C, wind speed 1m/s.

Scope of Work

Maximum System Voltage	[V]	1000 DC(IEC) or 1500 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

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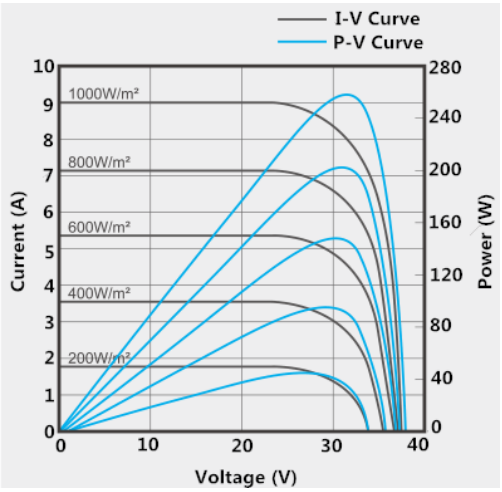


Packing Information

Packing Size	Container	20'GP	40'GP	40'HQ
1780 X 1120 X 1160mm	pieces for pallet	36	36	36
	pallets for Container	6	13	26
	pieces for Container	216	468	936

Product Advantages

1.Longer Warranty

Power decay rate of <0.5%, 30 year power output can be guaranteed

2.No Risk of Cell Microcrack & Snail Trail

During the harsh transportation and installation operation, there is no cell microcrack, which can absolutely stop module from efficiency loss and service life decreasing because of cell microcrack

3.Low BOS Cos

1500V system voltage design, compared with the 1000V system, greatly reducing the cost of BOS

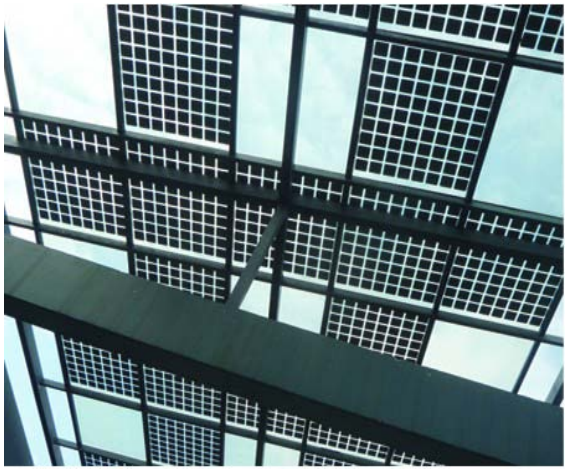
4.Low Operation Cos

Snow and dust will not be easily piled around the edge of module because of the frameless design, which make it easy to be cleaned and operated with lower cost.

5.Meeting the Demand of Transparency Flexibly

Substrate is replaced by glass and laid with cells in a reasonable proportion to meet the transparency demand.

Application:



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