P-Type Bifacial Mono Double Glass Modules

60CELLS 5BB
MONO-CRYSTAL MODULES

290-310W
POWER OUTPUT

18.8%
MAXIMUM EFFICIENCY

30 YEARS linear performance warranty

10 YEARS product warranty

Higher Power Output
- Backside power gain up to 25% depending on reflection.
- Excellent low-light performance.

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

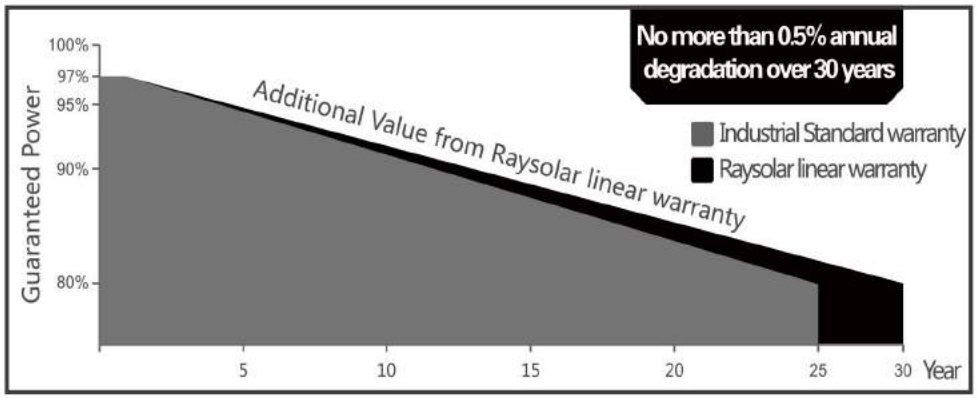
High return on investment
- 1500 V system voltage reduces BOS costs.
- 0.5% annual degradation, 30 year linear warranty, more power output.
- Frameless design, less dust or snow pilling up, reduces O&M cost.

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.

Optional Products

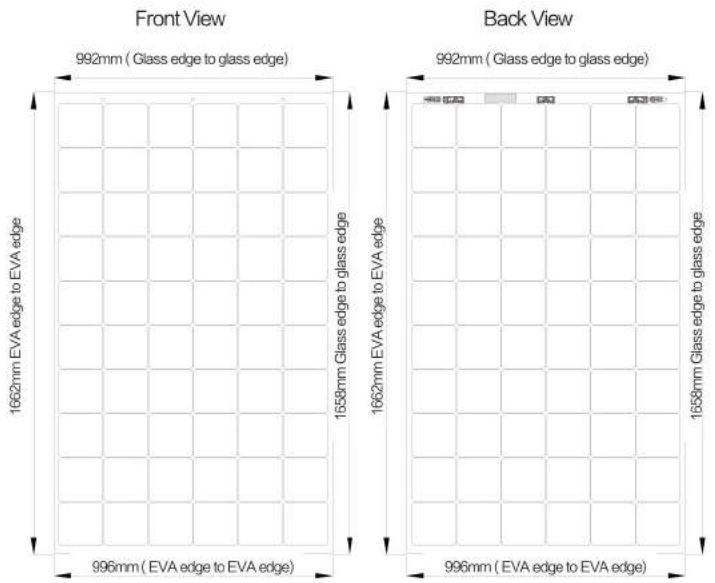
10% transmittance modules Opaque modules

Linear Performance Warranty



Certification

Engineering drawing



Mechanical Specifications

Cell Type	Bifacial Mono crystalline (156.75mm*156.75mm)
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 (Heat Strength coated glasss)
Interlayer	EVA/POE/PVB
Back Glass [mm]	2.5 (Heat Strength 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

		BPDM60-290		BPDM60-295		BPDM60-300		BPDM60-305		BPDM60-310	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power at STC [Pmax]	[W]	290	215	295	218	300	222	305	226	310	229
Open Circuit Voltage [Voc]	[V]	38.89	35.96	39.10	36.15	39.35	36.39	39.62	36.64	39.89	36.88
Short Circuit Current [Isc]	[A]	9.57	7.72	9.65	7.78	9.72	7.84	9.80	7.90	9.88	7.97
Voltage at Maximum Power point[Vm]	[V]	31.76	28.86	32.03	29.11	32.37	29.42	32.66	29.68	32.95	29.95
Current at Maximum Power point[Im]	[A]	9.13	7.44	9.21	7.50	9.27	7.55	9.34	7.61	9.41	7.66
Power Tolerance	[%]	0~+3%									
Module Efficiency	[%]	17.6		17.9		18.2		18.5		18.8	

STC: Air Mass AM1.5,Ir-radiance 1000W/m^2 Cell temperature 25°C.
NOCT: Air Mass AM1.5, Ir-radiance 800W/m^2 Ambient tempera-ture 20°C, wind speed 1m/s.

10% transmittance modules:290-305W;Opaque modules:295-310W

Double sides Power Output (Back gain)

	5%					10%					15%				
Maximum Power [Pmax]	305	309	315	320	325	319	325	330	335	341	334	339	345	351	356
Module Efficiency	18.5	18.8	19.1	19.4	19.7	19.4	19.7	20.0	20.4	20.7	20.2	20.6	20.9	21.3	21.6

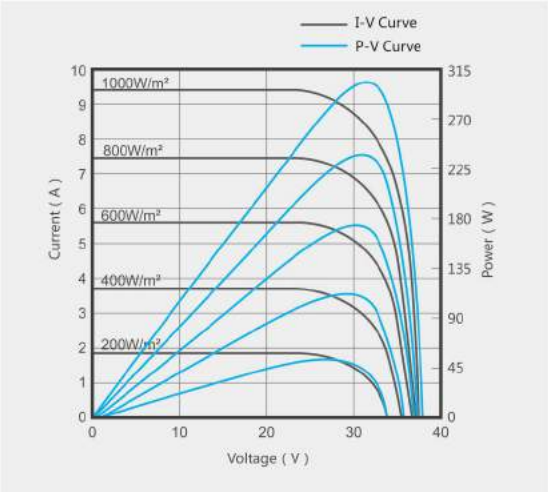
Scope of Work

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