



# BYD Polycrystal Silicone Dual Glass Modules

## BYD-P6D-30 255W-280W

BYD, the first company in the world, encapsulate polycrystal cells with **silicone** and dual glass. Silicone Dual glass Module has longer lifetime due to unique design structure. It can be applied to high-humidity areas (such as water surface, tidal flat), strong sand area (such as desert, wasteland), extremely cold areas and roof.



IEC 61215, IEC 61730  
ISO9001:2008, ISO14001:2004



### Additional Power Generation Gain

Silicone without UV blockers which allows silicone dual glass module can generates power with UV portion.



### Excellent Low Temperature Performance

Lower glass transition temperature than EVA and POE guarantees silicone keep elastic and can protect cells from cracking even under -40°C. Suitable for use in extremely cold areas.



### Excellent High Temperature Performance

Unlike EVA and POE capsulation, silicone won't undergo secondary crosslinking. Suitable for use in high temperature regions.



### Double Protection from Moisture

Polyiso-butylene(PIB) as sealant with extreme low moisture transmission rate. Suitable for use in high-humidity areas (such as water surface, tidal flat).



### ZERO PID (Potential Induced Degradation)

Silicone with high volume resistance and dual glass design, PID free.



### Longer Lifetime

Silicones are virtually unaffected by ultraviolet light or ozone and maintain their performance for decades.



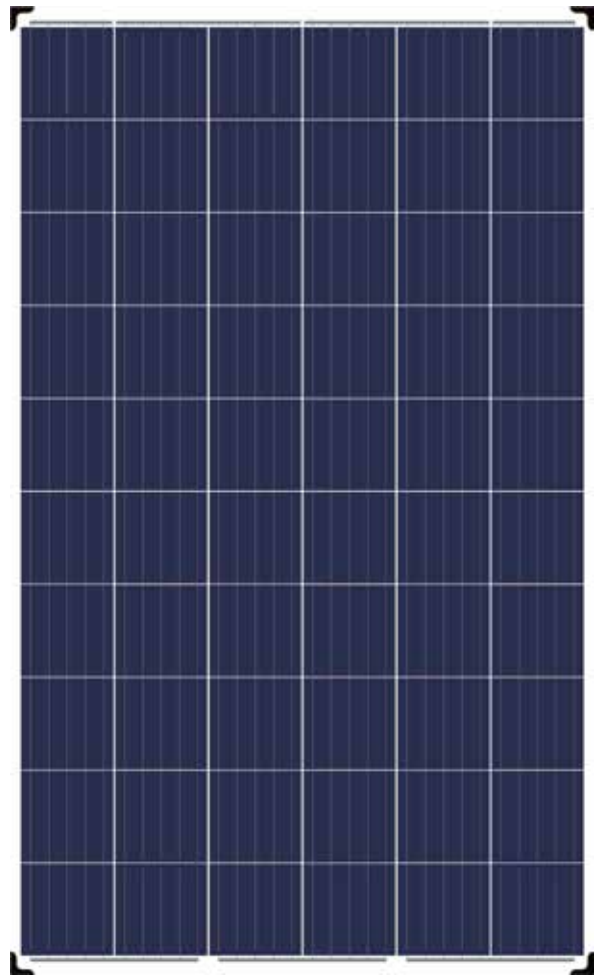
### Higher Security

Fire Class A and Type 3 / Type 10 to minimize fire risks.



### Excellent Mechanical Properties

Withstand 3600Pa wind load and 5400Pa snow Load and no micro-cracks.

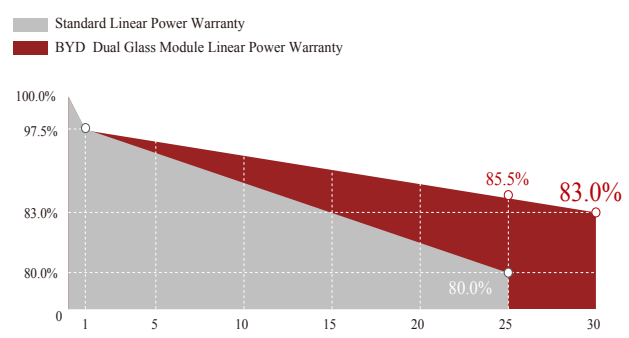


**10 YEARS**

Product warranty on materials and workmanship

**30 YEARS**

Power output warranty



BYD (HK:1211), one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Photovoltaic Modules, Electrical Vehicles and Battery Energy Storage technology makes BYD the world-leading solution provider from energy generating to consumption and storage.

Electrical Properties (Front)\*

Peak Power (Pmax) (W)	255	260	265	270	275	280
Open Circuit Voltage (Voc)(V)	38.07	38.38	38.69	39.00	39.31	39.62
Short Circuit Current (Isc) (A)	8.89	8.97	9.05	9.13	9.21	9.29
MPP Voltage (Vmp) (V)	30.04	30.67	30.92	31.18	31.43	31.68
MPP Current (Imp) (A)	8.39	8.48	8.57	8.66	8.75	8.84
Module Efficiency (%)	15.8%	16.1%	16.4%	16.7%	17.0%	17.4%
Encapsulation Material	Silicone					
Operating Temperature ( C )	-40 C ~+85 C					
Maximum System Voltage (V)	1500(IEC)					
Maximum Series Fuse Rating (A)	15					
Safety Class	Class II					
Power Tolerance	0~+5Wp					

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

Electrical Properties | NMOT \*

Peak Power (Pmax) (W)	191	195	198	202	206	209
Open Circuit Voltage (Voc)(V)	35.5	35.8	36.1	36.4	36.7	37.0
Short Circuit Current (Isc)(A)	7.20	7.26	7.33	7.39	7.45	7.52
MPP Voltage (Vmp) (V)	34.6	34.9	35.1	35.3	35.6	35.7
Mpp Current (Imp) (A)	6.70	6.77	6.83	6.90	6.96	7.02

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s.

Temperature Coefficient

Temp. Coeff. of Pmax (TK Pmax)	-0.37%/°C
Temp. Coeff. of Voc (TK Voc)	-0.3%/°C
Temp. Coeff. of Isc (TK Isc)	+0.066%/°C
NMOT	43±2°C

Mechanical Properties

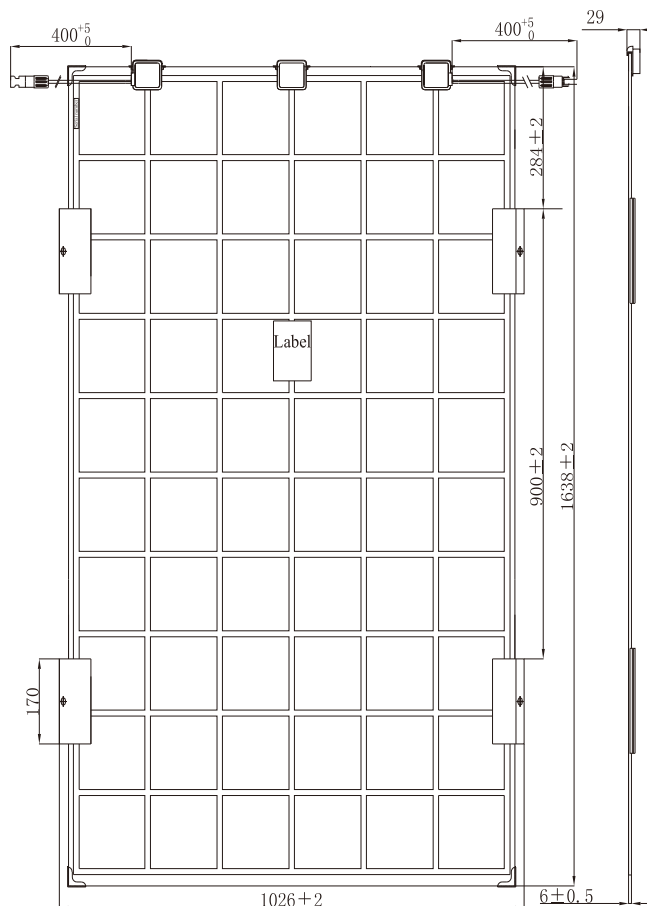
Cell Type	156.75mm*156.75mm
Number of Cells	60pcs (6*10)
Diension	1638mm*985mm*6mm
Weight	23.0Kg
Front/Rear Glass	2.5mm/2.5mm
Frame	Frameless
Junction Box	IP67(3 Diodes)
Cable Type	4.0mm <sup>2</sup> 400mm
Connector	MC4 Compatible

Packing Information

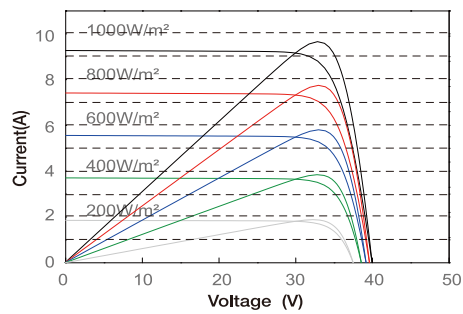
Packing Type	40'HQ
Piece/Pallet	31
Pallet/Container	26
Piece/Container	806

Mechanical Properties

Front Snow Load	5400Pa
Rear Wind Load	3600Pa
Hail Test	Diameter 25mm, Velocity 23m/s



Current-Voltage Curve under different irradiance >BYD-P6D-30-275



Current-Voltage Curve under different working temperatures > BYD-P6D-30-275

