

## BYD's Dream All Human Hope

Changing human dependence on non-renewable energy as the starting point, with three green dreams of electric vehicle, energy storage station and solar farm, BYD looks forward to helping more countries and people to get rid of fossil energy over consumption crisis and environmental pollution, and strive to leave offspring a beautiful and clean world to live in.



In the daytime, solar panels capture solar energy like plants. At night, energy storage station transports the stored energy, like solar energy, wind energy, tidal energy, to thousands of families smoothly.

The electric vehicle, shuttling on the streets and lanes, is of zero emission, zero pollution.

Is this a dream?

This is the green dream of BYD and even all human beings.

Is this a dream?

No. We are already seeing it approaching us.





19.0%

Average cell efficiency up to 19.0%  
Excellent optical performance

0-5W

Power tolerance 0-5W  
Reliability for output performance

12  
Years

12 years for product  
25 years linear warranty

Grid

Residential roof top systems  
On/Off-grid commercial systems  
On/Off-grid utility systems

3<sup>rd</sup>

Design loads: 3600 Pa for positive  
(downward) and 1600 Pa for  
negative (upward) Safety factors Ym: 1.5

Corresponding to maximum snow and ice  
load 5400Pa, maximum wind load 2400Pa

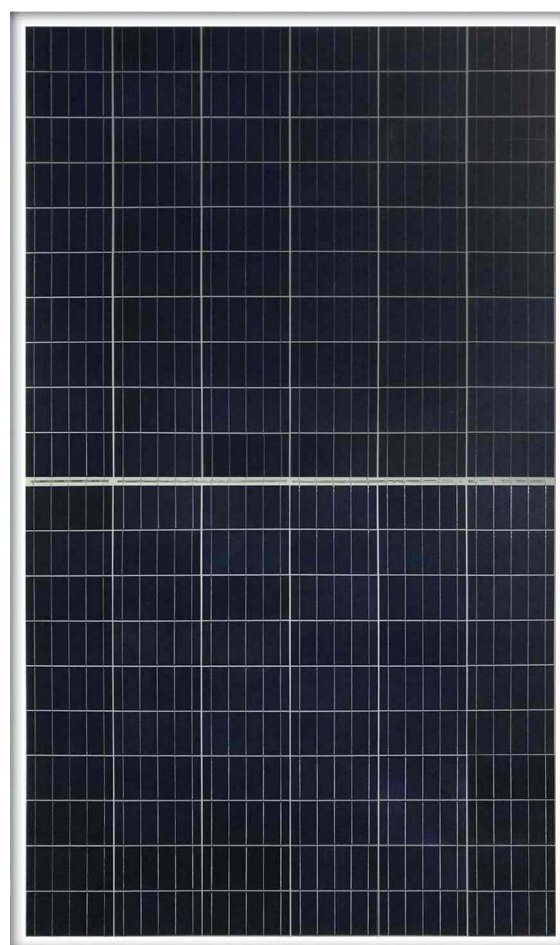
Certification

IEC61215-1(ed.1)  
IEC61215-1-1(ed.1)  
IEC61215-2(ed.1)  
IEC61730-1(ed.2)  
IEC61730-2(ed.2)

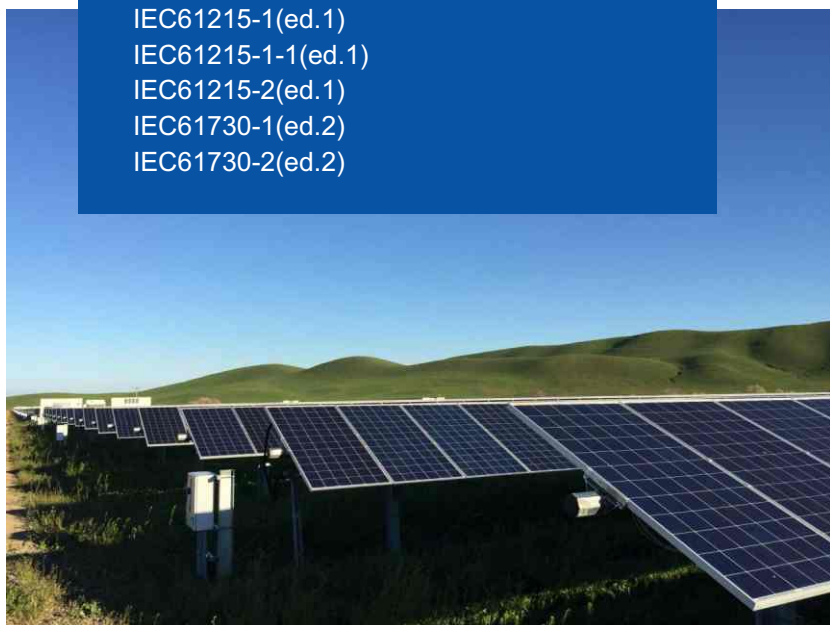
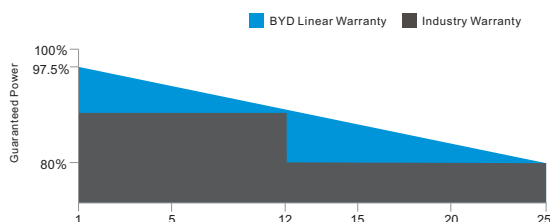
# BYD

## Poly Half Cell Module

### BYD PHK-30-SERIES-5BB 275-285W



BYD PV Module 25 Years Linear Performance Warranty



# BYD PHK-30-SERIES-5BB 275-285W

## Mechanical Properties

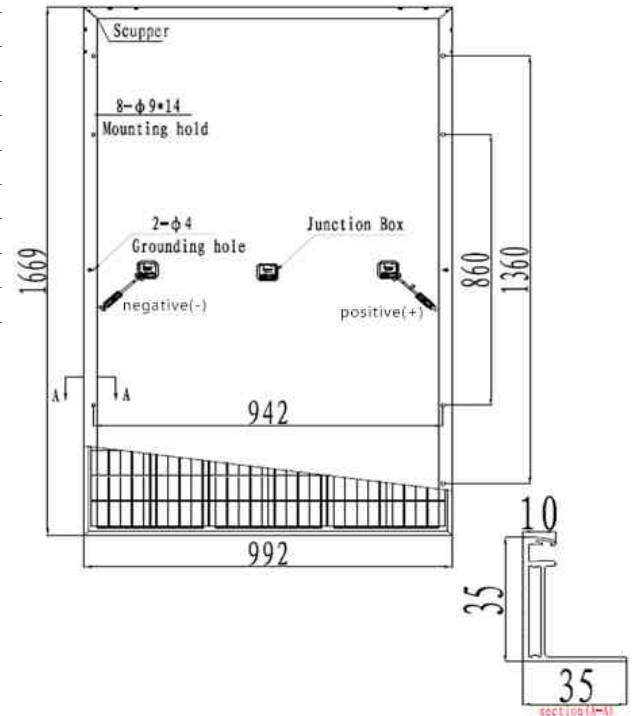
Cell Type	156.75mm*78.375mm
Number of Cells	120
Dimension of Module	1676 mmx992 mmx35 mm
Weight	21,1 kg ±5%
Front Glass	3.2 mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP67(3 Diodes)
Cable Length	2x450mm(4.0mm <sup>2</sup> )
Connector	MC4 Compatible

## Temperature Coefficient

Peak Power Temperature Coefficient	-0.349%/°C
Open-Circuit Voltage Temperature Coefficient	-0.285%/°C
Short-Circuit Current Temperature Coefficient	0.057%/°C

## Packing Information

Packing Type	40' HQ
Piece/Pallet	30
Pallet/Container	28
Piece/Container	840



## Electrical Data (STC\*)

Module Type	BYD275PHK-30	BYD280PHK-30	BYD285PHK-30
Rate Maximum Power (Pmax)(W)	275Wp	280Wp	285Wp
Open Circuit Voltage (Voc) (V)	37.60 V	37.85 V	38.10 V
Short Circuit Current (Isc) (A)	9.16 A	9.22 A	9.28 A
Maximum Power Voltage (Vmp)(V)	31.94 V	32.26 V	32.57 V
Maximum Power Current (Imp) (A)	8.61 A	8.68 A	8.75 A
Module Efficiency (%)	16.61%	16.8%	17.21%

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

## Electrical Data (NMOT\*)

Module Type	BYD275PHK-30	BYD280PHK-30	BYD285PHK-30
Rate Maximum Power (Pmax)(W)	207.6Wp	211.1Wp	214.6Wp
Open Circuit Voltage (Voc) (V)	35.40 V	35.60 V	35.80 V
Short Circuit Current (Isc) (A)	7.40 A	7.45 A	7.50 A
Maximum Power Voltage (Vmp)(V)	29.50 V	29.80 V	30.10V
Maximum Power Current (Imp) (A)	7.03 A	7.08A	7.13 A

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

## Operational parameter

Operating Temperature (°C)	-40°C~85°C
NOCT(Nominal operating cell temperature)	45°C±2°C
Maximum System Voltage (V)	1500(VDC)
Maximun Fuse Current Rating (A)	15A
Fire Safety	Class C
Power Tolerance	0-5W

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