

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.





22.2%

Average cell efficiency up to 22.2%
Excellent optical performance

0-5W

Power tolerance 0-5W
Power Measurement Tolerance $\pm 5\%$
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

3rd

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

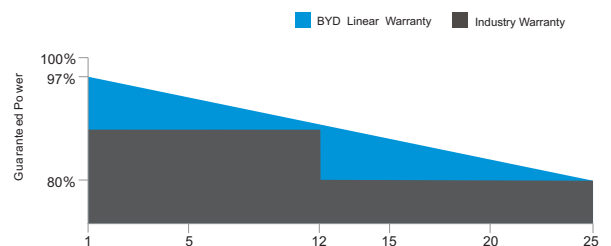
BYD

Mono Half Cell Module

BYD MIK-39-SERIES-5BB 420W-445W



PV Module 25 Years Linear Performance Warranty





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Mechanical Properties

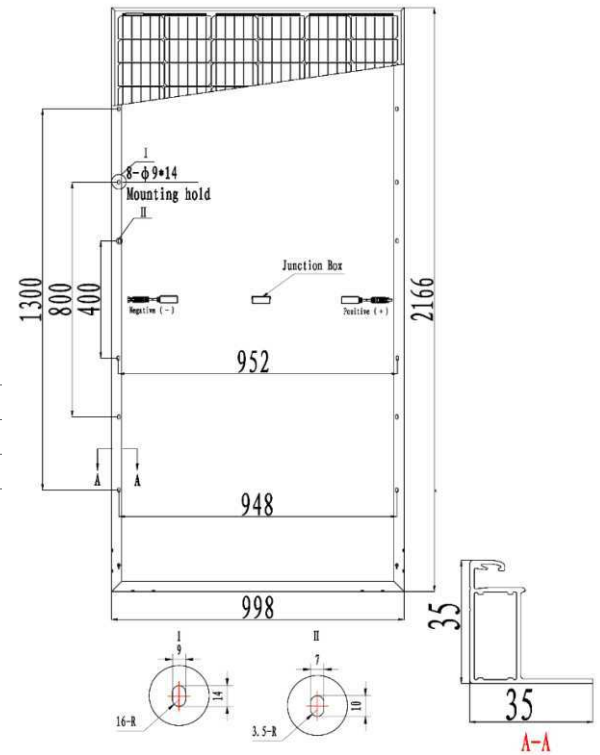
Cell Type	158.75mm*79.375mm
Number of Cells	156
Dimension of Module	2166*998*35mm
Weight	23.44kg ±5%
Front Glass	3.2mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP67(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm ²)
Connector	Genuine MC4 EVO2

Temperature Coefficient

Peak Power Temperature Coefficient	-0.328%/°C
Open-Circuit Voltage Temperature Coefficient	-0.254%/°C
Short-Circuit Current Temperature Coefficient	0.041%/°C

Packing Information

Packing Type	40'HQ
Piece/Pallet	30+35
Pallet/Container	10+10
Piece/Container	650



Electrical Data (STC*)

Module Type	BYD420MIK-39	BYD425MIK-39	BYD430MIK-39	BYD435MIK-39	BYD440MIK-39	BYD445MIK-39
Rate Maximum Power P _{max} (W)	420Wp	425Wp	430Wp	435Wp	440Wp	445Wp
Open Circuit Voltage (V _{oc}) (V)	51.82V	51.94V	52.06V	52.18V	52.30V	52.42V
Short Circuit Current (I _{sc}) (A)	10.27A	10.36A	10.45A	10.54A	10.63A	10.72A
Maximum Power Voltage (V _{mp})(V)	43.48V	43.59V	43.70V	43.81V	43.92V	44.03V
Maximum Power Current (I _{mp}) (A)	9.66A	9.75A	9.84A	9.93A	10.02A	10.11A
Module Efficiency (%)	19.4%	19.7%	19.9%	20.1%	20.4%	20.6%

* Standard Test Conditions (STC) : irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Data (NMOT*)

Module Type	BYD420MIK-39	BYD425MIK-39	BYD430MIK-39	BYD435MIK-39	BYD440MIK-36	BYD445MIK-39
Rate Maximum Power P _{max} (W)	317.7Wp	322.3Wp	326.1Wp	330.0Wp	333.9Wp	336.3Wp
Open Circuit Voltage (V _{oc}) (V)	49.0V	49.1V	49.3V	49.4V	49.5V	49.5V
Short Circuit Current (I _{sc}) (A)	8.27A	8.34A	8.42A	8.49A	8.56A	8.64A
Maximum Power Voltage (V _{mp})(V)	40.50V	40.70V	40.80V	40.90V	41.00V	41.00V
Maximum Power Current (I _{mp}) (A)	7.84A	7.92A	8.00A	8.07A	8.14A	8.21A

Nominal Module Operating Temperature (NMOT) : irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Operational Parameter

Operating Temperature (°C)	-40°C~+85°C
NMOT(Nominal Module operating temperature)	45°C±2°C
Maximum System Voltage (V)	1500 (VDC)
Maximun Fuse Current Rating (A)	20A
Fire Safety	Class C
Power Tolerance	0-5W
Power Measurement Tolerance	±5%

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Made in China,Vietnam,Cambodia