

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 $\pm 3\%$
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

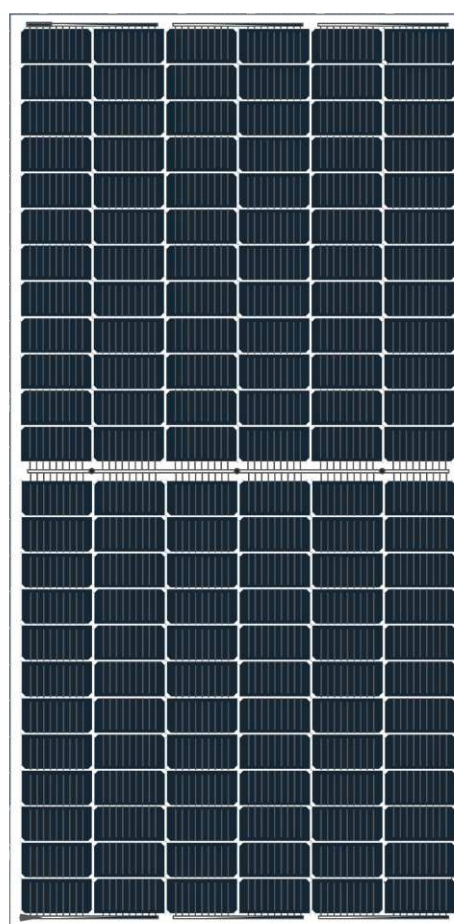
Certification

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

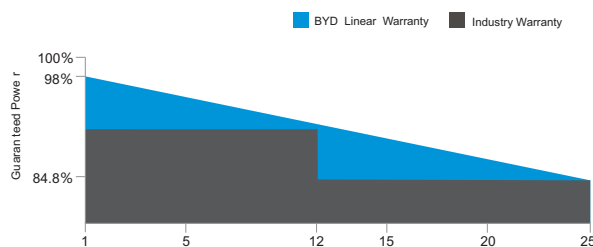
BYD

Mono Half Cell Module

BYD MG2K36-166M 425W-455W



PV Module 25 Years Linear Performance Warranty



BYD MG2K-36-166M 425W-455W

Mechanical Properties

Cell Type	166*83mm
Number of Cells	144
Dimension of Module	2094*1038*35mm
Weight	23.5KG
Front Glass	3.2mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP68
Cable Length	+300mm , -300mm(4.0mm ²)
Connector	Genuine MC4 EVO2

Temperature Coefficient

Peak Power Temperature Coefficient	-0.350%/°C
Open-Circuit Voltage Temperature Coefficient	-0.270%/°C
Short-Circuit Current Temperature Coefficient	0.048%/°C

Packing Information

Packing Type	40'HQ
Piece/Pallet	30
Pallet/Container	11+11
Piece/Container	660

Electrical Data (STC*)

Module Type	BYD425MG2K-36	BYD430MG2K-36	BYD435MG2K-36	BYD440MG2K-36	BYD445MG2K-36	BYD450MG2K-36	BYD455MG2K-36
Rate Maximum Power P _{max} (W)	425Wp	430Wp	435Wp	440Wp	445Wp	450Wp	455Wp
Open Circuit Voltage (V _{oc}) (V)	48.3V	48.5V	48.7V	48.9V	49.1V	49.3V	49.5V
Short Circuit Current (I _{sc}) (A)	11.23A	11.31A	11.39A	11.46A	11.53A	11.60A	11.66A
Maximum Power Voltage (V _{mp})(V)	40.5V	40.7V	40.9V	41.1V	41.3V	41.5V	41.7V
Maximum Power Current (I _{mp}) (A)	10.50A	10.57A	10.64A	10.71A	10.78A	10.85A	10.92A
Module Efficiency (%)	19.6%	19.8%	20.0%	20.2%	20.5%	20.7%	20.9%

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

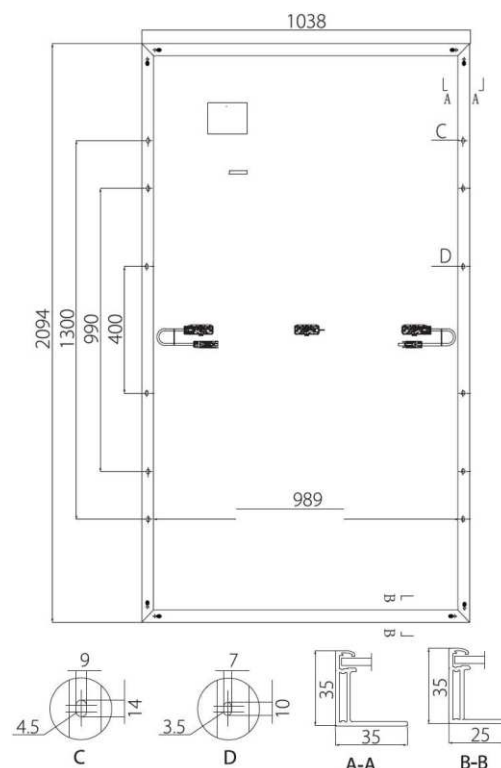
Electrical Data (NMOT*)

Module Type	BYD425MG2K-36	BYD430MG2K-36	BYD435MG2K-36	BYD440MG2K-36	BYD445MG2K-36	BYD450MG2K-36	BYD455MG2K-36
Rate Maximum Power P _{max} (W)	317.4Wp	321.1Wp	324.9Wp	328.6Wp	332.3Wp	336.1Wp	339.8Wp
Open Circuit Voltage (V _{oc}) (V)	45.3V	45.5V	45.7V	45.8V	46.0V	46.2V	46.4V
Short Circuit Current (I _{sc}) (A)	9.08A	9.15A	9.21A	9.27A	9.33A	9.38A	9.43A
Maximum Power Voltage (V _{mp})(V)	37.7V	37.9V	38.1V	38.3V	38.5V	38.6V	38.8A
Maximum Power Current (I _{mp}) (A)	8.42A	8.47A	8.53A	8.59A	8.64A	8.70A	8.75A

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	±3%



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