

AURO^N

N-Type TOPCon Bifacial Module

690-720W NSBK-33

Key Product Features



High conversion efficiency
Modules efficiency up to 23.19%



Excellent low-light performance
Better low-light power generation performance in low radiation environment such as haze and cloudy days



High compatibility
Excellent system compatibility
Adapt to mainstream inverter and tracker



SMBB Technology
16BB, Better light trapping and current collection capability to improve module power output



Zero LID
Excellent LID resistance performance, achieving Zero LID



Weather resistance
Excellent resistance to Salt Mist, Dust and Sandy, Ammonia corrosion and other harsh environments
Wider range of application



Low LCOE
Significantly decrease BOS costs
Improve project return on investment



Low temperature coefficient
Peak power temperature coefficient $-0.278\%/^{\circ}\text{C}$
Excellent power generation performance in high temperature environment

Comprehensive product certification

- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

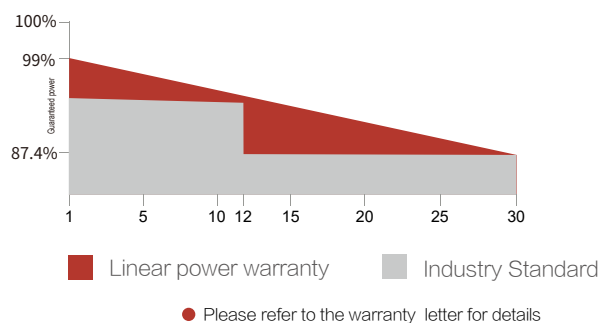


Industry-leading Quality Assurance

12 year
Product warranty

30 year
Linear power warranty

-0.40%
Annual degradation



Solar Power



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Electrical Data(STC*)

Module Type: NSBK-33	690	695	700	705	710	715	720
Rate Maximum Power(Pmax)(W)	690	695	700	705	710	715	720
Open Circuit Voltage(Voc) (V)	48.12	48.34	48.56	48.78	49.00	49.22	49.44
Short Circuit Current(Isc) (A)	18.08	18.11	18.14	18.17	18.20	18.23	18.26
Maximum Power Voltage(Vmp)(V)	40.28	40.50	40.72	40.94	41.16	41.38	41.60
Maximum Power Current (Imp) (A)	17.13	17.16	17.19	17.22	17.25	17.28	17.31
Module Efficiency (%)	22.22	22.38	22.54	22.70	22.86	23.03	23.19

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

Electrical Data(NMOT*)

Module Type: NSBK-33	690	695	700	705	710	715	720
Rate Maximum Power(Pmax)(W)	521.7	525.4	529.1	532.9	536.7	540.6	544.4
Open Circuit Voltage(Voc) (V)	45.5	45.7	45.9	46.1	46.3	46.5	46.7
Short Circuit Current(Isc) (A)	14.59	14.62	14.64	14.66	14.69	14.71	14.74
Maximum Power Voltage(Vmp)(V)	37.7	37.9	38.1	38.3	38.5	38.7	38.9
Maximum Power Current (Imp) (A)	13.84	13.87	13.89	13.92	13.95	13.97	14.00

*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	-40°C~+85°C				
NMOT (Nominal Module Operating Temperature)	45±2°C				
Maximum System Voltage(V)	1500V DC				
Maximun Fuse Current Rating(A)	35A				
Fire Safety	Class C				
Power Tolerance	0~+5W				
Bifacial Factor	80±5%				
PG. 720W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	756	792	828	864	900
Open Circuit Voltage(Voc) (V)	49.44	49.44	49.44	49.44	49.44
Short Circuit Current (Isc) (A)	19.17	20.09	21.00	21.91	22.83
Maximum Power Voltage(Vmp)(V)	41.60	41.60	41.60	41.60	41.60
Maximum Power Current(Imp) (A)	18.18	19.04	19.91	20.77	21.64

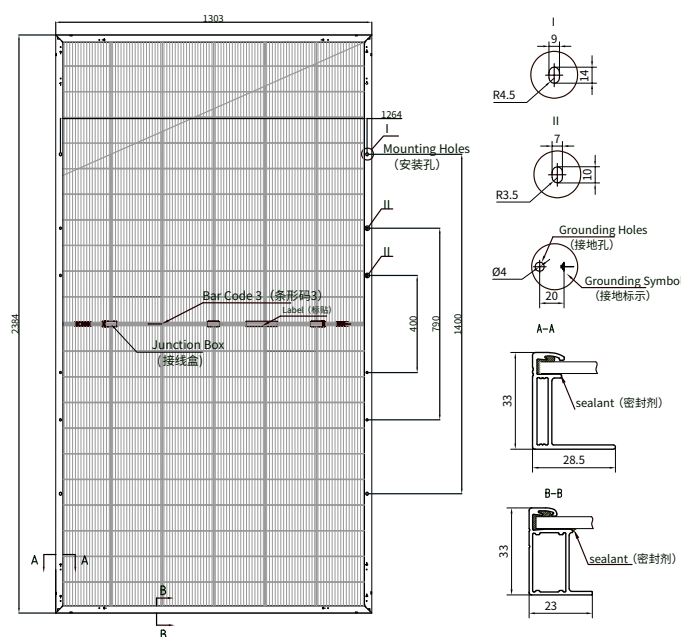
Mechanical Properties

Cell Type	N - type Mono-crystalline				
Number of Cells	132				
Dimension of Module	2384*1303*33mm				
Weight	38.3Kg±5%				
Front Glass	2.0mm tempered glass with AR Coating				
Back Glass	2.0mm semi-tempered grid printing glass				
Frame	Anodized aluminum alloy				
Junction Box	IP68(3 Diodes)				
Cable Length	+320mm , -260mm(4.0mm ²) ; or Customized Length				
Packing Information	594(33*18)pcs per 40'HQ				

Temperature Coefficient

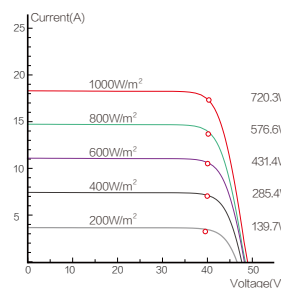
Peak Power Temperature Coefficient	-0.278%/°C
Open-Circuit Voltage Temperature Coefficient	-0.239%/°C
Short-Circuit Current Temperature Coefficient	0.044%/°C

Drawing

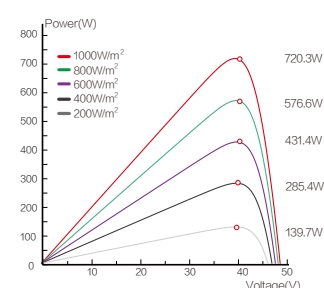


I-V curve

Current-Voltage Curve (720W)
Cells temp.=25°C



Power-Voltage Curve (720W)
Cells temp.=25°C



Declaration:With the technical progress and product updates,there exists a deviation between the technical parameter of the BYD Solar's future products and the technical parameter in this specification.The BYD Solar reserves the right to adjust the technical parameter at any time without notifying the customers, BYD Solar reserves the final right of interpretation.

(V202501A)