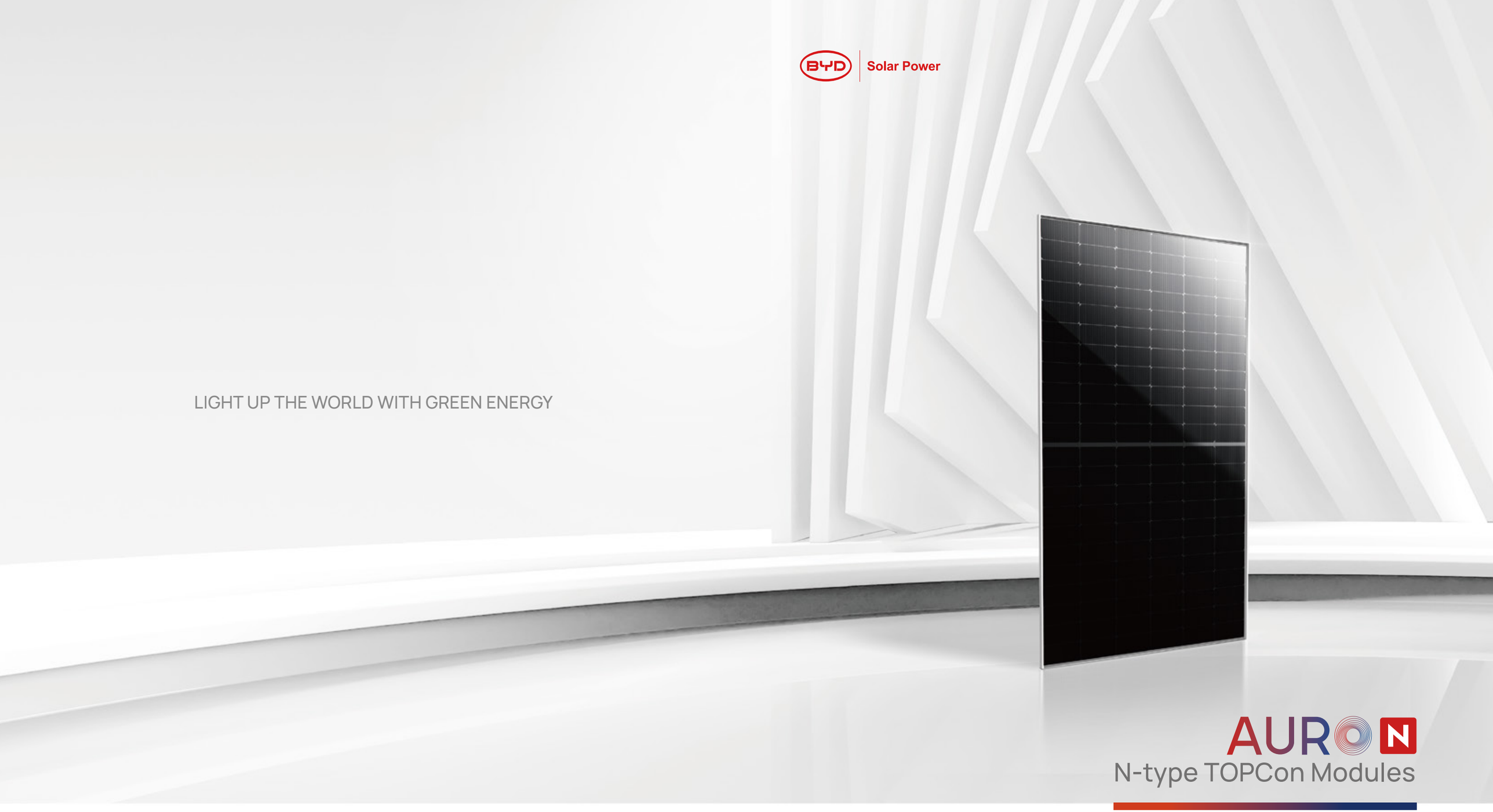
Solar Power

LIGHT UP THE WORLD WITH GREEN ENERGY



AURO N

N-type TOPCon Modules

PRODUCT BROCHURE

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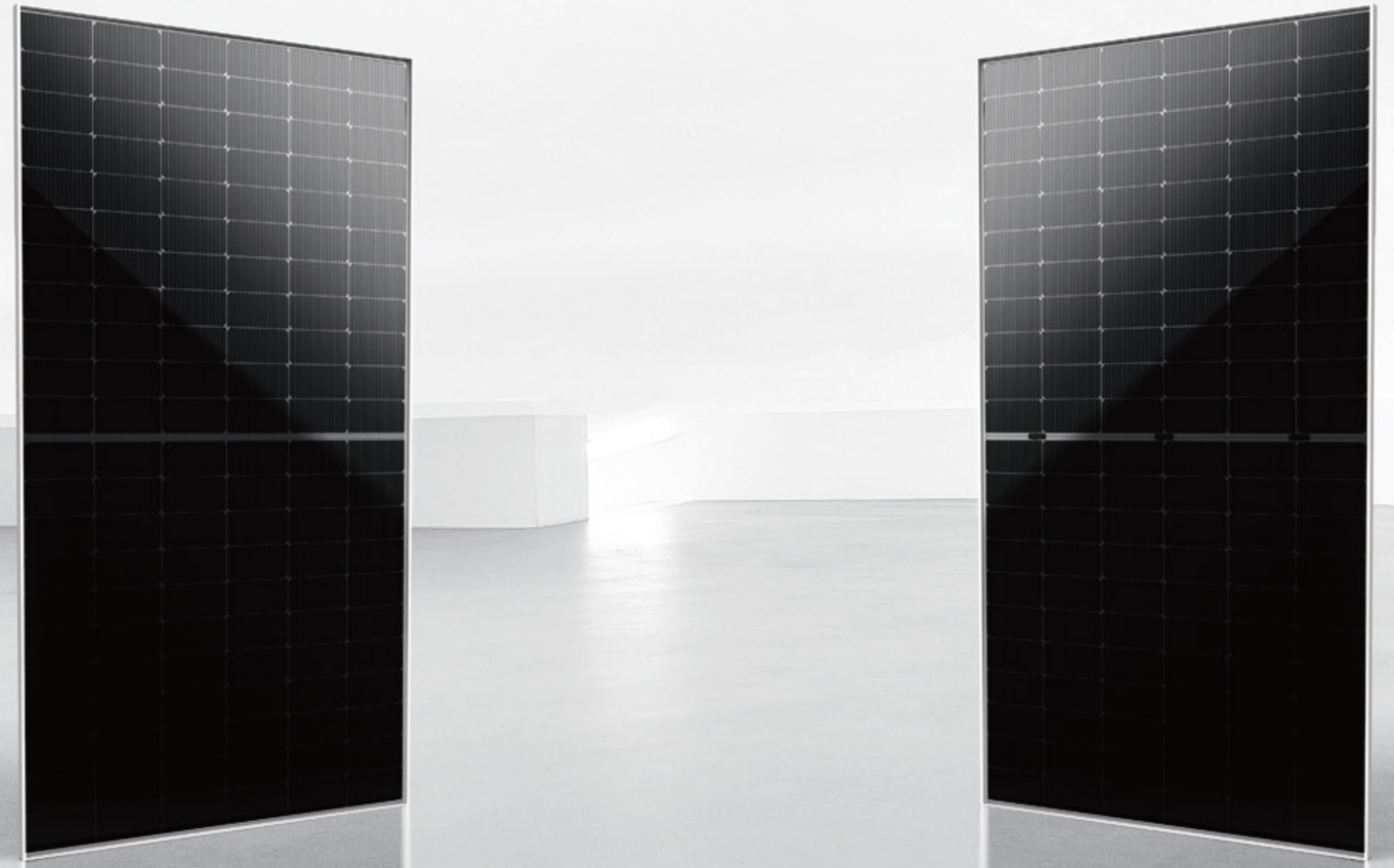
Add. 3009 BYD Road, Pingshan District, Shenzhen

AURO N

N-type TOPCon Modules

AURO N



23.25%
Efficiency

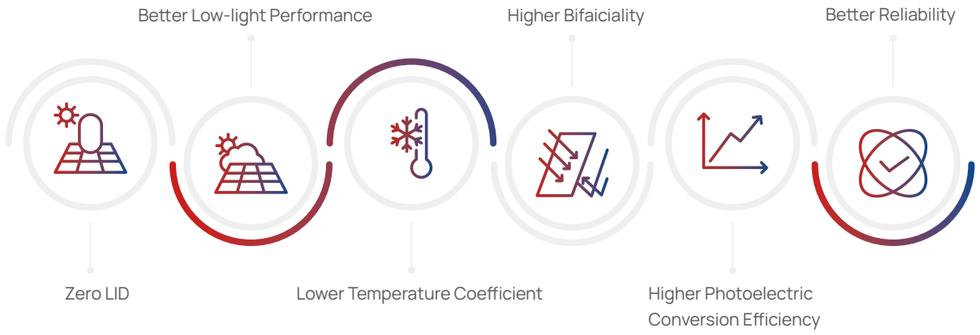
- 0.30%/℃
Temperature Coefficient

80%
Bifaciality

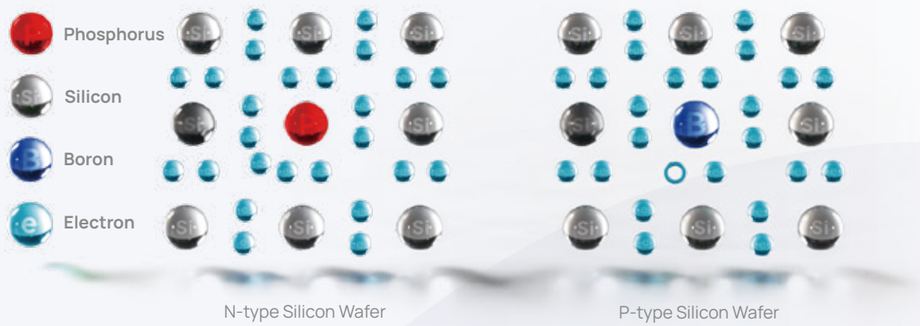
≤1%
First Year Degradation

30years
Power Warranty

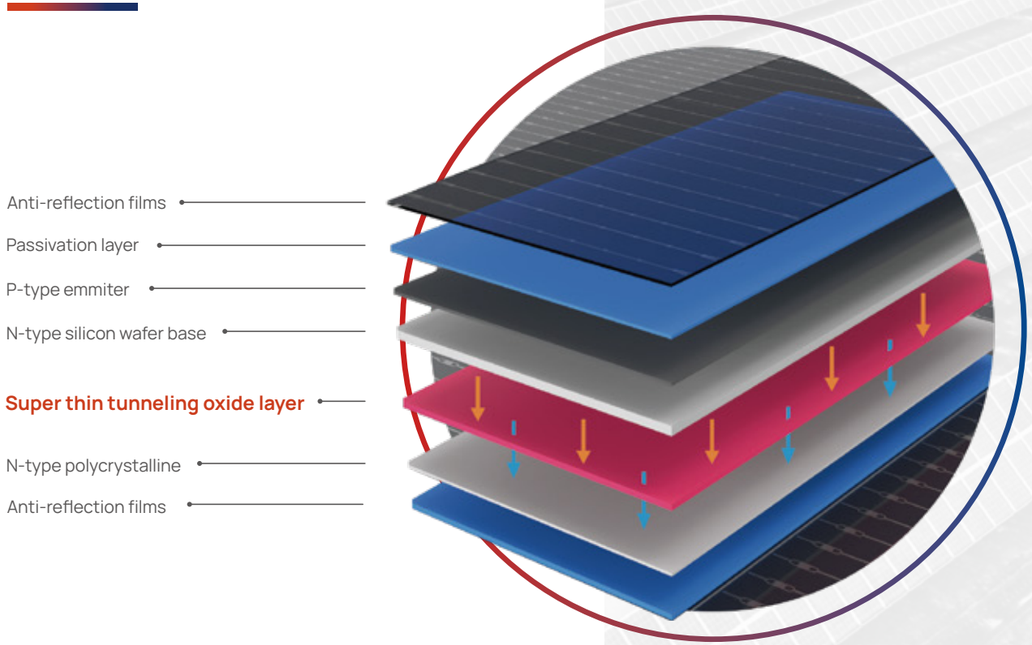
N-type Silicon Wafer Advantages



N-type silicon wafers do not have boron-oxygen defects, have longer minority carriers lifetime and can achieve zero LID.

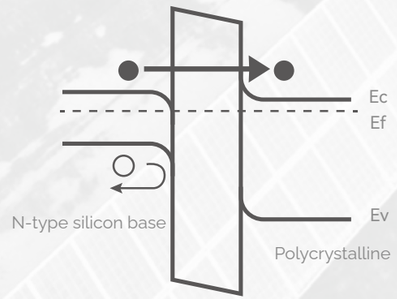


N-type TOPCon Cell Advantages

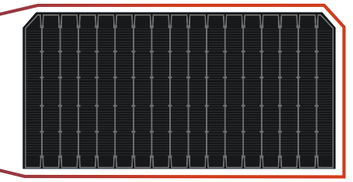


TOPCon Cell Structure

The modules use highly efficient passivating contact technology. The back side of the cell uses an super thin tunneling oxide layer with carrier selective transport and a doped polysilicon thin film structure, resulting in a significant increase in the photoelectric conversion efficiency of the cell.

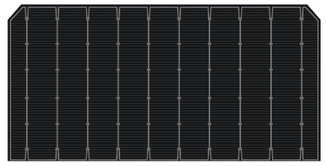


Passivating contact technology



AURON

16BB



Traditional Module

10BB

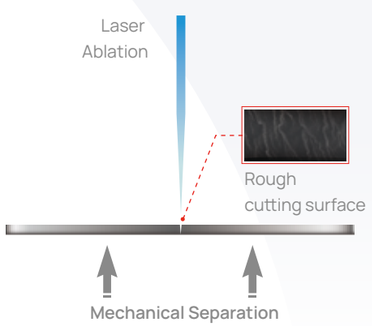
SMBB Technology

The superfine 16 busbars enable less shading and shorter current conduction distance. It has better power collection capability and effectively enhances the power output.

Non-destructive Cutting Technology

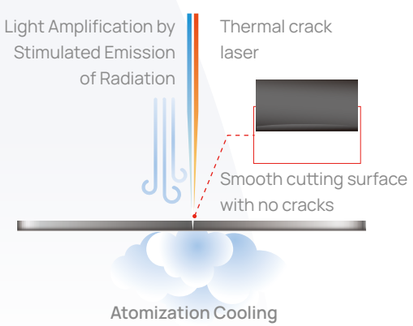
The non-destructive cutting technology enables the cell to have smooth cutting surface and no cracks. It improves the parallel resistance of the cells, effectively reduces the risk of hidden cracks and ensures the best mechanical performance of cells.

Traditional cutting



‹ Back side of ›
the cell

Non-destructive Cutting

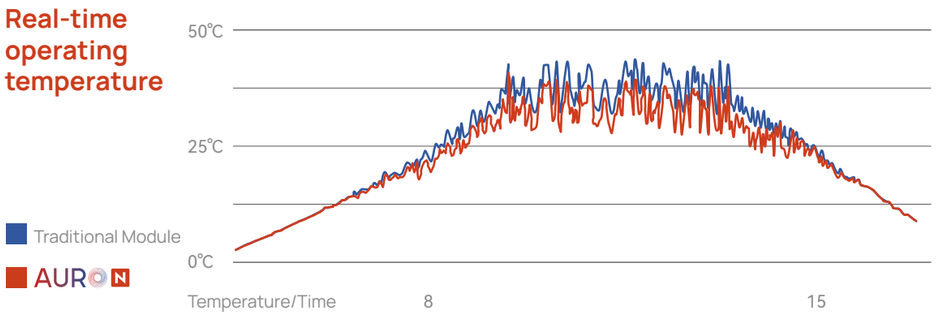


High-density Encapsulation Technology

The high-density encapsulation technology reduces the spacing between cells. This enlarges the effective power generation area of the module and improves the energy density.

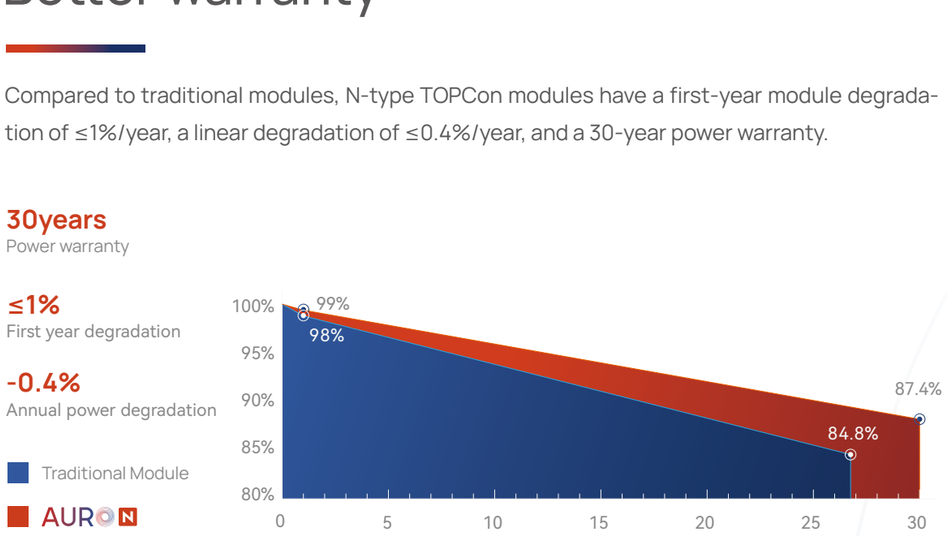
Better Temperature Coefficient

The temperature coefficient is -0.30%/°C, which results in better power generation performance in high temperature environment.



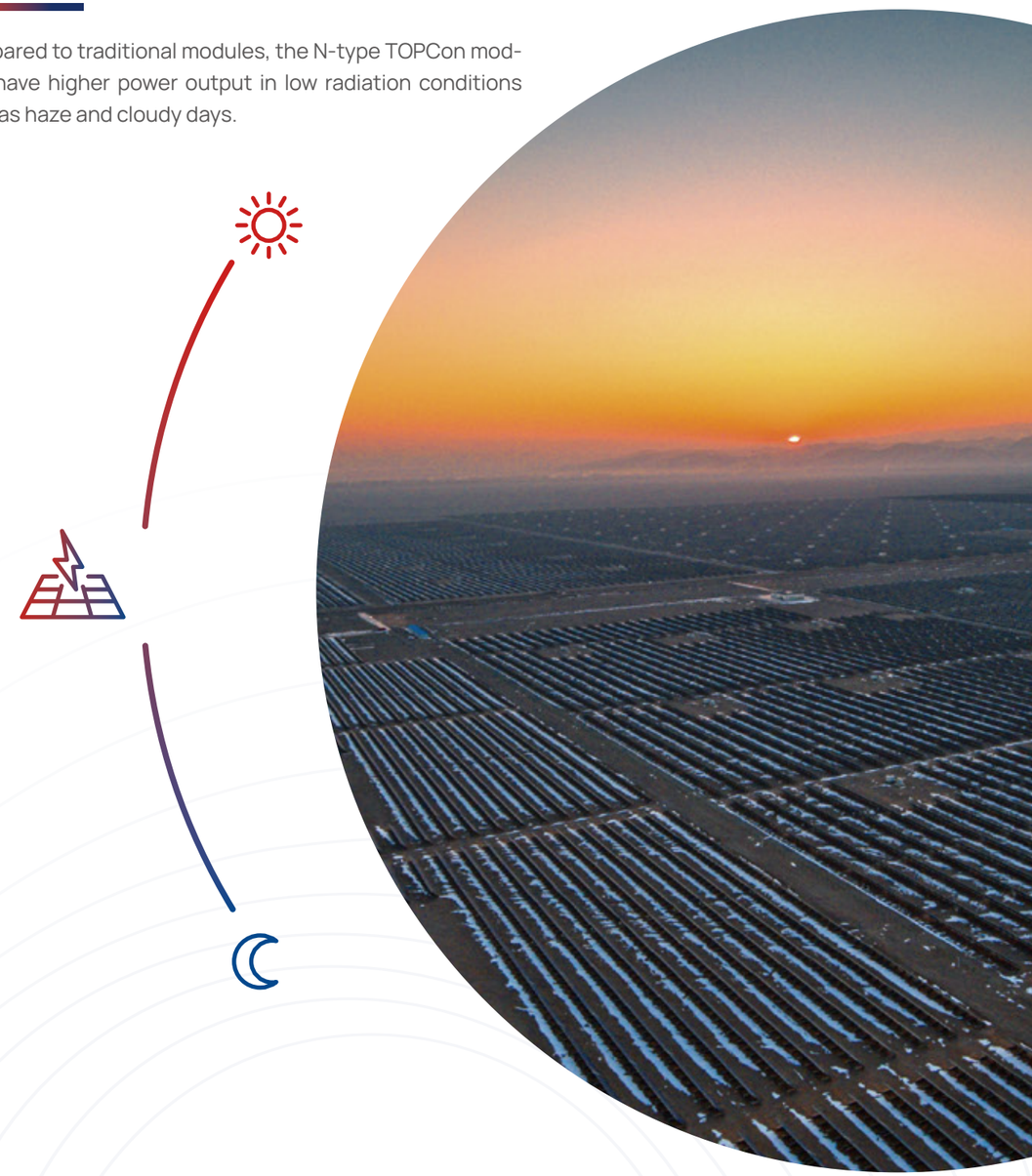
Better warranty

Compared to traditional modules, N-type TOPCon modules have a first-year module degradation of ≤1%/year, a linear degradation of ≤0.4%/year, and a 30-year power warranty.



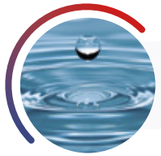
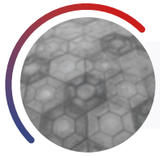
Better Low-light Response

Compared to traditional modules, the N-type TOPCon modules have higher power output in low radiation conditions such as haze and cloudy days.

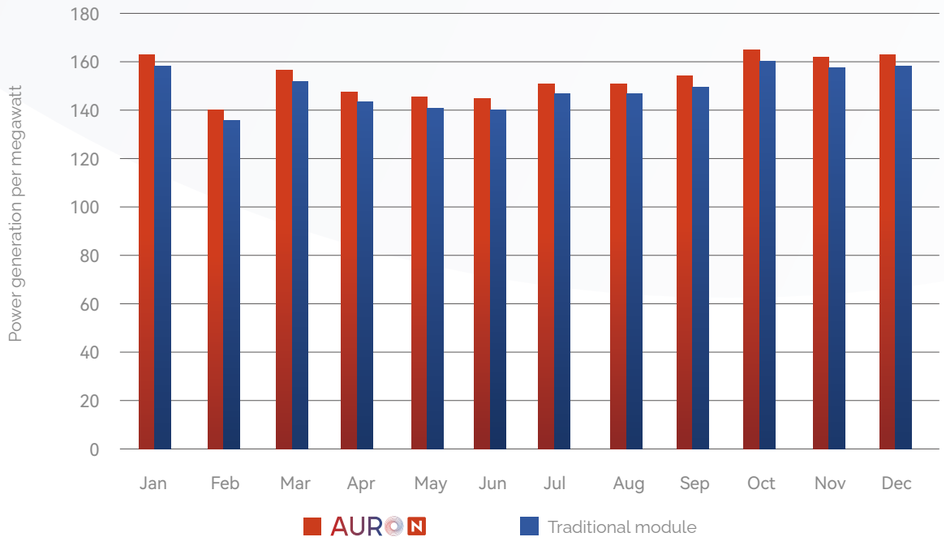


Higher power generation

The Bifaciality is 80%. Under the same radiation intensity received on the back side, the module's power generation gain is 5%-32%.

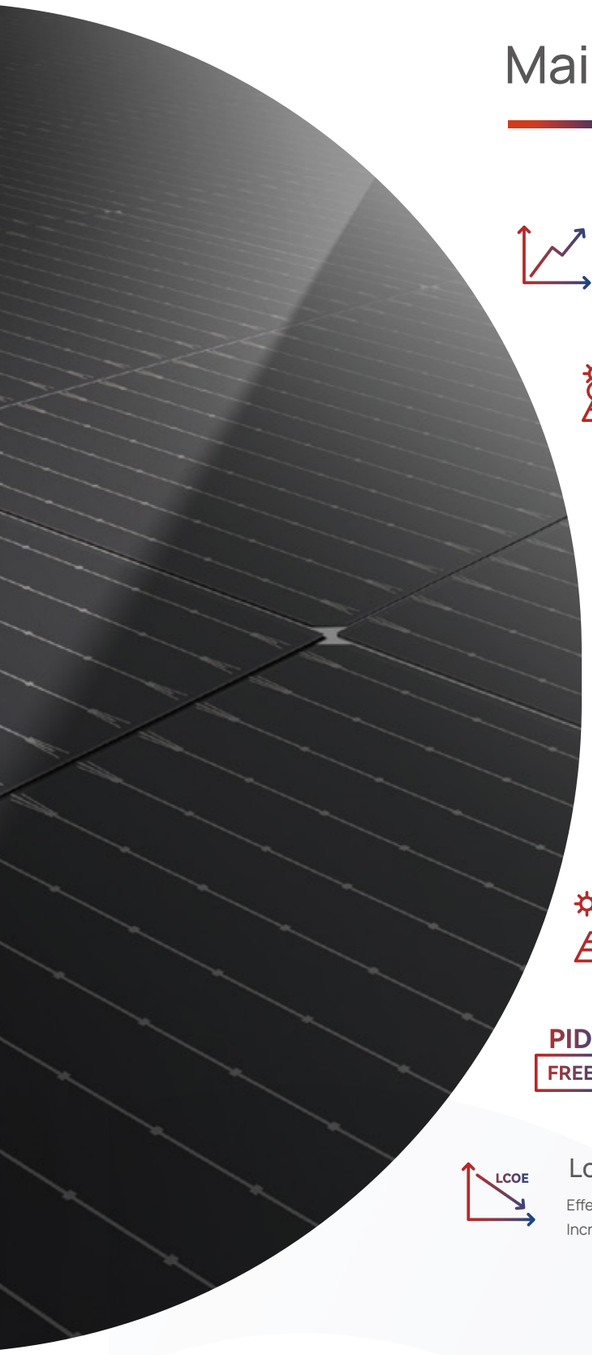
	Reflectivity	AURO N Bifaciality 80%	Annual power generation per kilowatt kWh/kWp/year	Traditional module Bifaciality 70%	Annual power generation per kilowatt kWh/kWp/year
 **Desert**	20%-40%	**+3.26%**	1894		1835
White Paint	70%	**+3.63%**	2018		1948
 **Meadow**	15%-20%	**+2.80%**	1804		1755
 **Surface of Water**	10%-15%	**+2.51%**	1757		1714
 **Cement**	20%-40%	**+3.05%**	1850		1795
 **Snowfield**	80%	**+3.69%**	2056		1983

AURO N module's power generation and the reliability of long-term application contribute to effective and stable power generation in the life cycle.



In Conakry, Guinea, 100MW AURO N bifacial module project has power generation gain about 3.05%, compared to traditional P-type module.

Geographical location of the project in Conakry, Guinea



Main characteristics

High conversion efficiency

Module conversion efficiency up to 23.25%

Better low-light performance

More power generation in the low radiation conditions like the haze and cloudy days

SMBB technology

The 16 busbars have better power generation capability to improve module power output effectively

Better temperature coefficient

Peak temperature coefficient -0.30%/℃
Excellent power generation at high temperature

Bifacial power generation

Module power generation on both sides
Power gain 5%-32%

Zero LID

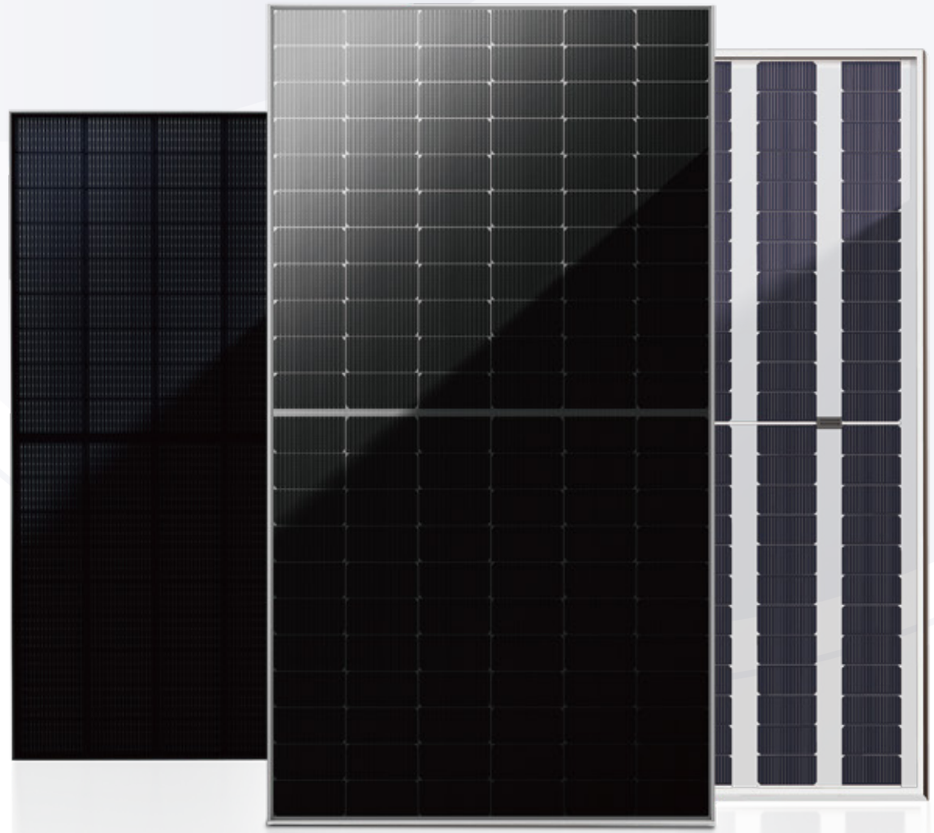
Excellent LID resistance performance
Achieve "Zero LID"

PID resistance

Optimize cells production technology and material control
Enhance PID resistance performance and reduce degradation

Low LCOE

Effectively reduce BOS cost
Increase project ROI



	All-black series	High efficient series	Transparent series
Power	450W	650W	400W
Efficiency	23.04%	23.25%	15.48%
Dimension	1722*1134*35mm	2465*1134*30mm	2278*1134*30mm
Weight	20.6kg±5%	32.4kg±5%	30.0kg±5%

AURO N

N-type TOPCon Mono-facial Module

425-450W **NLK-27**

Key product features

Architectural Aesthetics
Elegant black module appearance fits architectural aesthetics design

Light Weight Design
Easy to handle and reduce installation costs

Better Low-light Performance
More power generation in the low radiation conditions like the haze and cloudy days

Zero LID
Excellent LID resistance performance
Achieve “Zero LID”

SMBB Technology
The 16 busbars have better power generation capacity to improve module power output effectively

PID Resistance
Optimize cells production technology and material control. Enhance PID resistance performance and reduce degradation

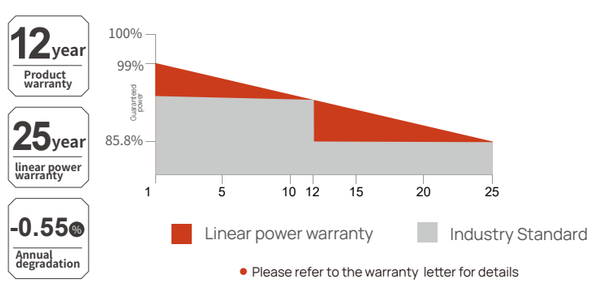
Better Temperature Coefficient
Peak temperature coefficient -0.30%/℃
Excellent power generation at high temperature

Low LCOE
Effectively reduce BOS cost
Increase project ROI

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



- Please refer to the warranty letter for details

AURO

NLK-27 425-450W

Electrical Data(STC*)

Module Type：NLK-27	425	430	435	440	445	450
Rate Maximum Power(Pmax)(W)	425	430	435	440	445	450
Open Circuit Voltage(Voc)(V)	38.75	38.95	39.16	39.38	39.59	39.80
Short Circuit Current(Isc)(A)	13.66	13.73	13.80	13.86	13.93	14.00
Maximum Power Voltage(Vmp)(V)	32.18	32.38	32.59	32.81	33.02	33.23
Maximum Power Current(Imp)(A)	13.21	13.28	13.35	13.41	13.48	13.55
Module Efficiency(%)	21.76	22.02	22.28	22.53	22.79	23.04

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

Electrical Data(NMOT*)

Module Type：NLK-27	425	430	435	440	445	450
Rate Maximum Power(Pmax)(W)	320.3	323.9	327.7	331.3	335.1	338.9
Open Circuit Voltage(Voc)(V)	36.4	36.6	36.8	37.0	37.2	37.4
Short Circuit Current(Isc)(A)	11.03	11.09	11.14	11.19	11.25	11.31
Maximum Power Voltage(Vmp)(V)	30.5	30.7	30.9	31.1	31.3	31.5
Maximum Power Current(Imp)(A)	10.48	10.54	10.60	10.65	10.70	10.76

*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℃~+85℃
NMOT（Nominal Module Operating Temperature）	45±2℃
Maximum System Voltage(V)	1500V DC
Maximun Fuse Current Rating(A)	25A
Fire Safety	Class C
Power Tolerance	0~+5W

Mechanical Properties

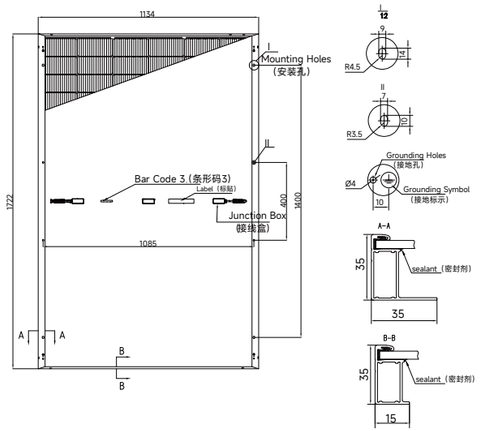
Cell Type	182mm*91mm
Number of Cells	108
Dimension of Module	1722*1134*35mm
Weight	20.6kg±5%
Front Glass	3.2mm semi-tempered coated glass
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm²)； or Customized Length
Packing Information	806（31*26）pcs per 40'HQ

Temperature Coeffcient

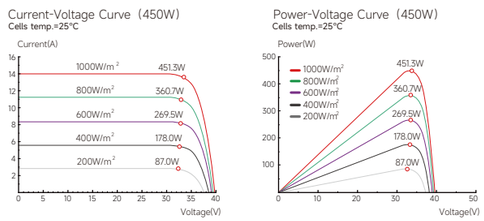
Peak Power Temperature Coefficient	-0.30%/℃
Open-Circuit Voltage Temperature Coefficient	-0.25%/℃
Short-Circuit Current Temperature Coefficient	0.046%/℃

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 pecification.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. (V202401A)

Drawing



I-V Curve



AURO N

N-type TOPCon bifacial dual glass module

425-450 W **NLBK-27**

Key product features

High power output
Module efficiency increase to 23.04%

Zero LID
Excellent LID resistance performance
Achieve zero light induced degradation

PID Resistance
Optimize cells production technology and material control.Enhance PID resistance performance, reduce degradation

Better low-light performance
More power generation in the low radiation environment like the haze and cloudy sky

SMBB technology
The 16 busbars have better power generation ability to improve module power output effectively

Bifacial power generation
Module power generation on both sides
Power gain 5%-32%

Low temperature coefficient
Peak temperature coefficient -0.30%/℃
Excellent power generation at a high temperature

Low LCOE
Effectively reduce BOS cost
Increase project ROI

Comprehensive product certification

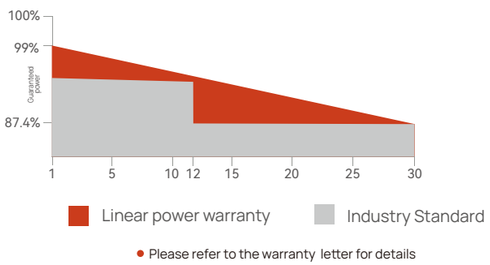
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

Industry-leading Quality Assurance

12 year Product warranty

30 year linear power warranty

-0.40 % Annual degradation



● Please refer to the warranty letter for details

Electrical Data(STC*)

Module Type: NLBK-27	425	430	435	440	445	450
Rate Maximum Power(Pmax)(W)	425	430	435	440	445	450
Open Circuit Voltage(Voc) (V)	38.75	38.95	39.16	39.38	39.59	39.80
Short Circuit Current(Isc) (A)	13.66	13.73	13.80	13.86	13.93	14.00
Maximum Power Voltage(Vmp)(V)	32.18	32.38	32.59	32.81	33.02	33.23
Maximum Power Current (Imp) (A)	13.21	13.28	13.35	13.41	13.48	13.55
Module Efficiency (%)	21.76	22.02	22.28	22.53	22.79	23.04

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

Electrical Data(NMOT*)

Module Type: NLBK-27	425	430	435	440	445	450
Rate Maximum Power(Pmax)(W)	320.3	323.9	327.7	331.3	335.1	338.9
Open Circuit Voltage(Voc) (V)	36.4	36.6	36.8	37.0	37.2	37.4
Short Circuit Current(Isc) (A)	11.03	11.09	11.14	11.19	11.25	11.31
Maximum Power Voltage(Vmp)(V)	30.5	30.7	30.9	31.1	31.3	31.5
Maximum Power Current (Imp) (A)	10.48	10.54	10.60	10.65	10.70	10.76

*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℃~+85℃					
NMOT (Nominal Module Operating Temperature)	45±2℃					
Maximum System Voltage(V)	1500V DC					
Maximun Fuse Current Rating(A)	30A					
Fire Safety	Class C					
Power Tolerance	0~+5W					
Bifacial Factor	80±5%					
PG.450W	5%	10%	15%	20%	25%	30%
Rate Maximum Power(Pmax)(W)	473	495	518	540	563	585
Open Circuit Voltage(Voc) (V)	39.8	39.8	39.8	39.8	39.8	39.80
Short Circuit Current (Isc) (A)	14.70	15.40	16.10	16.80	17.50	18.20
Maximum Power Voltage(Vmp)(V)	33.23	33.23	33.23	33.23	33.23	33.23
Maximum Power Current(Imp) (A)	14.23	14.91	15.58	16.26	16.94	17.62

Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	108
Dimension of Module	1722*1134*30mm
Weight	22.9kg±5%
Front Glass	2.0mm semi-tempered coated glass
Rear glass	2.0mm semi-tempered screen printed glass
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm²); or Customized Length
Packing Information	936 (36*26) pcs per 40'HQ

Temperature Coeffcient

Peak Power Temperature Coefficient	-0.30%/℃
Open-Circuit Voltage Temperature Coefficient	-0.25%/℃
Short-Circuit Current Temperature Coefficient	0.046%/℃

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Drawing

I-V Curve

AURO N

N-type TOPCon bifacial dual glass module

565-600W **NLBK-36**

Key product features

High power output
Module efficiency increase to 23.23%

Zero LID
Excellent LID resistance performance
Achieve zero light induced degradation

PID Resistance
Optimize cells production technology and material control.Enhance PID resistance performance, reduce degradation

Better low-light performance
More power generation in the low radiation environment like the haze and cloudy sky

SMBB technology
The 16 busbars have better power generation ability to improve module power output effectively

Bifacial power generation
Module power generation on both sides
Power gain 5%-32%

Low temperature coefficient
Peak temperature coefficient -0.30%/℃
Excellent power generation at a high temperature

Low LCOE
Effectively reduce BOS cost
Increase project ROI

Comprehensive product certification

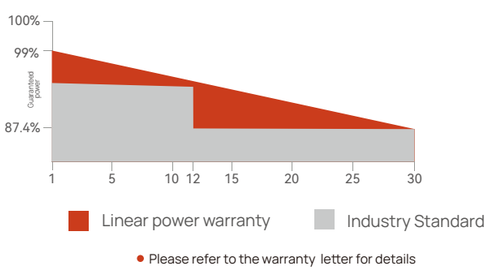
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

Industry-leading Quality Assurance

12 year Product warranty

30 year linear power warranty

-0.40% Annual degradation



Please refer to the warranty letter for details

Electrical Data(STC*)

Module Type: NLBK-36	565	570	575	580	585	590	595	600
Rate Maximum Power(Pmax)(W)	565	570	575	580	585	590	595	600
Open Circuit Voltage(Voc) (V)	50.60	50.74	50.88	51.01	51.14	51.28	51.41	51.54
Short Circuit Current(Isc) (A)	14.23	14.31	14.39	14.47	14.55	14.63	14.71	14.79
Maximum Power Voltage(Vmp)(V)	41.92	42.07	42.22	42.36	42.51	42.66	42.81	42.96
Maximum Power Current (Imp) (A)	13.48	13.55	13.62	13.69	13.77	13.84	13.91	13.98
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.65	22.84	23.03	23.23

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

Electrical Data(NMOT*)

Module Type: NLBK-36	565	570	575	580	585	590	595	600
Rate Maximum Power(Pmax)(W)	425.3	429.0	432.8	436.5	440.5	444.4	448.2	452.0
Open Circuit Voltage(Voc) (V)	47.6	47.8	47.9	48.0	48.1	48.3	48.4	48.5
Short Circuit Current(Isc) (A)	11.49	11.55	11.62	11.68	11.75	11.81	11.88	11.94
Maximum Power Voltage(Vmp)(V)	39.2	39.3	39.4	39.5	39.6	39.8	39.9	40.0
Maximum Power Current (Imp) (A)	10.86	10.92	10.98	11.05	11.11	11.17	11.24	11.30

*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℃~+85℃
NMOT (Nominal Module Operating Temperature)	45±2℃
Maximum System Voltage(V)	1500V DC
Maximun Fuse Current Rating(A)	30A
Fire Safety	Class C
Power Tolerance	0~+5W
Bifacial Factor	80±5%

PG.600W	5%	10%	15%	20%	25%	30%
Rate Maximum Power(Pmax)(W)	630	660	690	720	750	780
Open Circuit Voltage(Voc) (V)	51.54	51.54	51.54	51.54	51.54	51.54
Short Circuit Current (Isc) (A)	15.53	16.27	17.01	17.75	18.49	19.23
Maximum Power Voltage(Vmp)(V)	42.96	42.96	42.96	42.96	42.96	42.96
Maximum Power Current(Imp) (A)	14.68	15.38	16.08	16.78	17.48	18.17

Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	144
Dimension of Module	2278*1134*30mm
Weight	30.0kg±5%
Front Glass	2.0mm semi-tempered coated glass
Rear glass	2.0mm semi-tempered screen printed glass
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm²); or Customized Length
Packing Information	720 (36*20) pcs per 40'HQ

Temperature Coeffcient

Peak Power Temperature Coefficient	-0.30%/℃
Open-Circuit Voltage Temperature Coefficient	-0.25%/℃
Short-Circuit Current Temperature Coefficient	0.046%/℃

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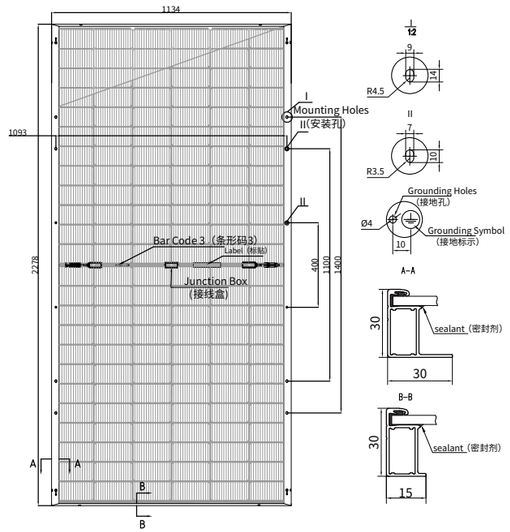
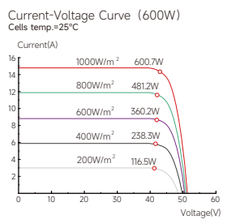
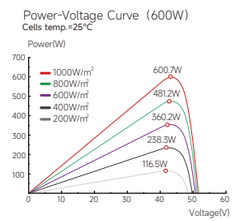
Drawing



I-V Curve





AURO N

N-type TOPCon bifacial dual glass module

625-650W **NLBK-39**

Key product features

High power output
Module efficiency increase to 23.25%

Zero LID
Excellent LID resistance performance
Achieve zero light induced degradation

PID Resistance
Optimize cells production technology and material control.Enhance PID resistance performance, reduce degradation

Better low-light performance
More power generation in the low radiation environment like the haze and cloudy sky

SMBB technology
The 16 busbars have better power generation ability to improve module power output effectively

Bifacial power generation
Module power generation on both sides
Power gain 5%-32%

Low temperature coefficient
Peak temperature coefficient -0.30%/℃
Excellent power generation at a high temperature

Low LCOE
Effectively reduce BOS cost
Increase project ROI

Comprehensive product certification

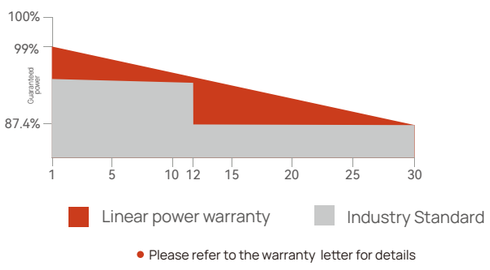
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

Industry-leading Quality Assurance

12 year Product warranty

30 year linear power warranty

-0.40 % Annual degradation



Please refer to the warranty letter for details

AURO

NLBK-39 625-650W

Electrical Data(STC*)

Module Type: NLBK-39	625	630	635	640	645	650
Rate Maximum Power(Pmax)(W)	625	630	635	640	645	650
Open Circuit Voltage(Voc) (V)	55.03	55.13	55.22	55.31	55.40	55.49
Short Circuit Current(Isc) (A)	14.28	14.35	14.42	14.49	14.56	14.63
Maximum Power Voltage(Vmp)(V)	45.86	45.99	46.12	46.25	46.38	46.51
Maximum Power Current (Imp) (A)	13.63	13.70	13.77	13.84	13.91	13.98
Module Efficiency (%)	22.36	22.54	22.72	22.90	23.07	23.25

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

Electrical Data(NMOT*)

Module Type: NLBK-39	625	630	635	640	645	650
Rate Maximum Power(Pmax)(W)	470.3	474.0	477.7	481.5	485.2	489.1
Open Circuit Voltage(Voc) (V)	51.8	51.9	52.0	52.0	52.1	52.2
Short Circuit Current(Isc) (A)	11.53	11.59	11.64	11.70	11.76	11.81
Maximum Power Voltage(Vmp)(V)	43.0	43.1	43.2	43.4	43.5	43.6
Maximum Power Current (Imp) (A)	10.94	10.99	11.05	11.10	11.16	11.21

*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℃~+85℃					
NMOT (Nominal Module Operating Temperature)	45±2℃					
Maximum System Voltage(V)	1500V DC					
Maximun Fuse Current Rating(A)	30A					
Fire Safety	Class C					
Power Tolerance	0~+5W					
Bifacial Factor	80±5%					
PG.650W	5%	10%	15%	20%	25%	30%
Rate Maximum Power(Pmax)(W)	683	715	748	780	813	845
Open Circuit Voltage(Voc) (V)	55.49	55.49	55.49	55.49	55.49	55.49
Short Circuit Current (Isc) (A)	15.36	16.09	16.82	17.56	18.29	19.02
Maximum Power Voltage(Vmp)(V)	46.51	46.51	46.51	46.51	46.51	46.51
Maximum Power Current(Imp) (A)	14.68	15.38	16.08	16.78	17.48	18.17

Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	156
Dimension of Module	2465*1134*30mm
Weight	34.0kg±5%
Front Glass	2.0mm semi-tempered coated glass
Rear glass	2.0mm semi-tempered screen printed glass
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm²); or Customized Length
Packing Information	576 (36*16) pcs per 40'HQ

Temperature Coeffcient

Peak Power Temperature Coefficient	-0.30%/℃
Open-Circuit Voltage Temperature Coefficient	-0.25%/℃
Short-Circuit Current Temperature Coefficient	0.046%/℃

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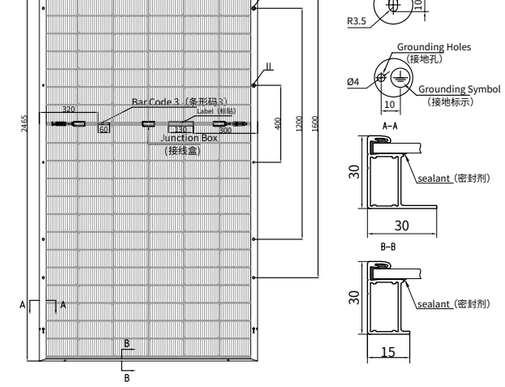
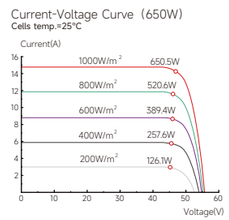
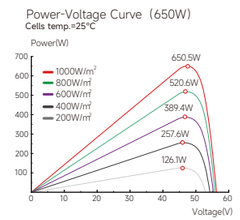
Drawing



I-V Curve

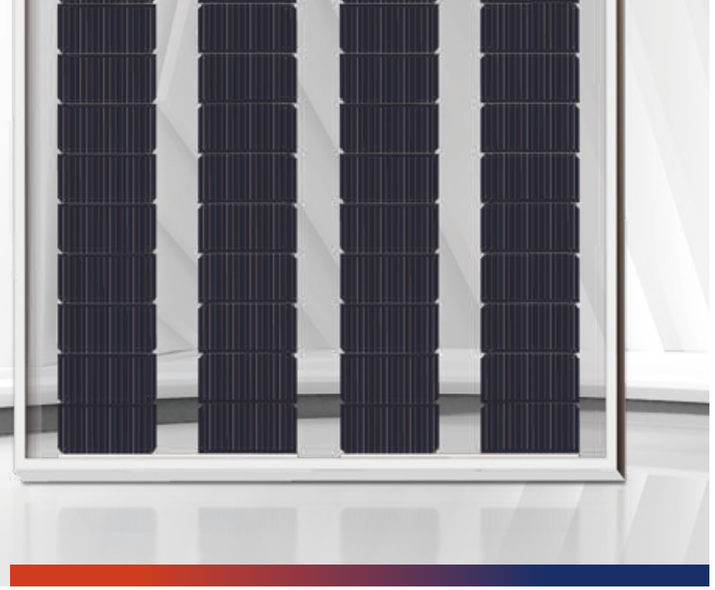




AURO N

N-type TOPCon bifacial dual glass module

380-400W **NLBK-24**



Key product features

Transparent modules
5%-40% Transmittance Suitable for scenarios with light transmission requirements

Zero LID
Excellent LID resistance performance
Achieve zero light induced degradation

PID Resistance
Optimize cells production technology and material control.Enhance PID resistance performance, reduce degradation

Better low-light performance
More power generation in the low radiation environment like the haze and cloudy sky

SMBB technology
The 16 busbars have better power generation ability to improve module power output effectively

Bifacial power generation
Module power generation on both sides
Power gain 5%-32%

Low temperature coefficient
Peak temperature coefficient -0.30%/℃
Excellent power generation at a high temperature

Low LCOE
Effectively reduce BOS cost
Increase project ROI

Comprehensive product certification

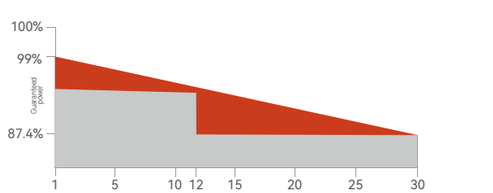
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

Industry-leading Quality Assurance

12 year Product warranty

30 year linear power warranty

-0.40 % Annual degradation



Please refer to the warranty letter for details

Electrical Data(STC*)

Module Type: NLBK-24	380	385	390	395	400
Rate Maximum Power(Pmax)(W)	380	385	390	395	400
Open Circuit Voltage(Voc) (V)	33.83	33.97	34.11	34.25	34.39
Short Circuit Current(Isc) (A)	14.31	14.43	14.55	14.67	14.79
Maximum Power Voltage(Vmp)(V)	28.05	28.19	28.34	28.48	28.63
Maximum Power Current (Imp) (A)	13.55	13.66	13.77	13.88	13.99
Module Efficiency (%)	14.71	14.90	15.10	15.29	15.48

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

Electrical Data(NMOT*)

Module Type: NLBK-24	380	385	390	395	400
Rate Maximum Power(Pmax)(W)	284.8	288.5	293.6	297.5	301.4
Open Circuit Voltage(Voc) (V)	31.8	32.0	32.1	32.2	32.4
Short Circuit Current(Isc) (A)	11.55	11.65	11.75	11.84	11.94
Maximum Power Voltage(Vmp)(V)	26.2	26.3	26.4	26.6	26.7
Maximum Power Current (Imp) (A)	10.86	10.96	11.11	11.20	11.30

*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℃~+85℃
NMOT (Nominal Module Operating Temperature)	45±2℃
Maximum System Voltage(V)	1500V DC
Maximun Fuse Current Rating(A)	30A
Fire Safety	Class C
Power Tolerance	0~+5W
Bifacial Factor	80±5%

PG.400W	5%	10%	15%	20%	25%	30%
Rate Maximum Power(Pmax)(W)	420	440	460	480	500	520
Open Circuit Voltage(Voc) (V)	34.39	34.39	34.39	34.39	34.39	34.39
Short Circuit Current (Isc) (A)	15.53	16.27	17.01	17.75	18.49	19.23
Maximum Power Voltage(Vmp)(V)	28.63	28.63	28.63	28.63	28.63	28.63
Maximum Power Current(Imp) (A)	14.69	15.39	16.09	16.79	17.49	18.19

Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	96
Dimension of Module	2278*1134*30mm
Weight	32.0kg±5%
Front Glass	2.0mm semi-tempered coated glass
Rear glass	2.0mm semi-tempered screen printed glass
Frame	Anodized aluminum alloy
Junction Box	IP68(2 Diodes)
Cable Length	+320mm , -260mm(4.0mm²); or Customized Length
Packing Information	720 (36*20) pcs per 40'HQ

Temperature Coeffcient

Peak Power Temperature Coefficient	-0.30%/℃
Open-Circuit Voltage Temperature Coefficient	-0.25%/℃
Short-Circuit Current Temperature Coefficient	0.046%/℃

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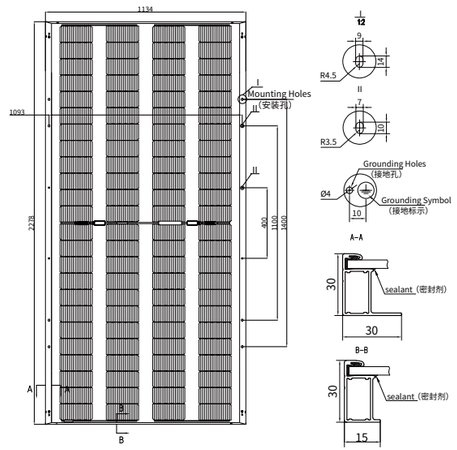

I-V Curve