

# AURO<sup>N</sup>

N-Type TOPCon Bifacial Module

425-445W **NLTK-27**

## Key Product Features



### High conversion efficiency

Modules efficiency up to 22.79%  
Average cell efficiency up to 25.50%



### 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  $-0.30\%/^{\circ}\text{C}$   
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 1<sup>st</sup> Edition
- UL 61730-2 1<sup>st</sup> Edition

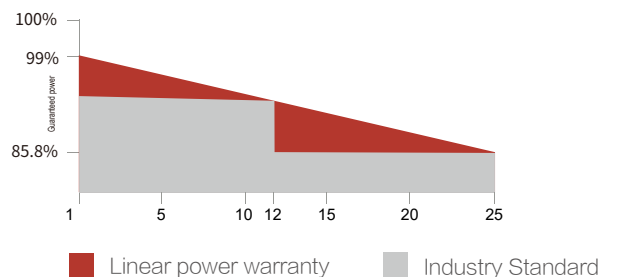


## Industry-leading Quality Assurance

**12 year**  
Product warranty

**25 year**  
Linear power warranty

**-0.55%**  
Annual degradation



● Please refer to the warranty letter for details



Electrical Data(STC\*)

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

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

\*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	-40°C~+85°C				
NMOT (Nominal Module Operating Temperature)	45±2°C				
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. 440W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	473	495	518	540	563
Open Circuit Voltage(Voc) (V)	39.8	39.8	39.8	39.8	39.8
Short Circuit Current (Isc) (A)	14.70	15.40	16.10	16.80	17.50
Maximum Power Voltage(Vmp)(V)	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

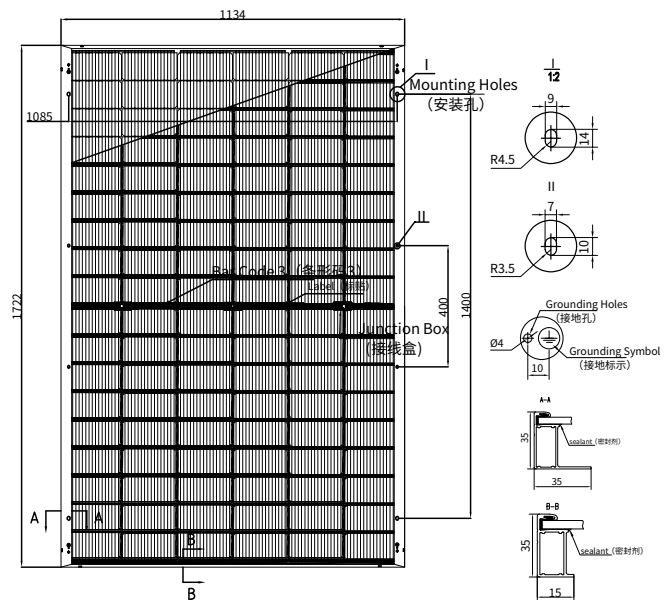
Mechanical Properties

Cell Type	N - type Mono-crystalline
Number of Cells	108
Dimension of Module	1722*1134*35mm
Weight	20.6KG±5%
Front Glass	3.2mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm <sup>2</sup> ) ; or Customized Length
Packing Information	806 (31*26) pcs per 40'HQ

Temperature Coefficient

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

Drawing



I-V curve

