

AURO^P

N-Type Topcon Mono Bifacial Dual Glass Module

555-580W **NLBK-36**

Key Product Features



High power output

Module efficiency increases to 22.45%
Average efficiency of cell up to 24.50%



Bifacial power generation

Both sides absorb sunlight to generate power
5%-32% power generation gain



Excellent weak illumination response

Better low-light power generation performance
in low- irradiation environments such as smog
and cloudy days



Zero LID

Excellent antidegradation capability
to achieve zero LID



SMBB Technology

16BB has better light trapping and
current collection to improve module
power output



PID Resistance

Excellent Anti-PID Performance guarantee via optimized
production technology and materials control



Excellent weak illumination response

Better low-light power generation performance
in low- irradiation environments such as smog
and cloudy days



LOW LOCE (Levelized Cost of Energy)

Reduce the cost of BOS efficiently
Increase return on project investment

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

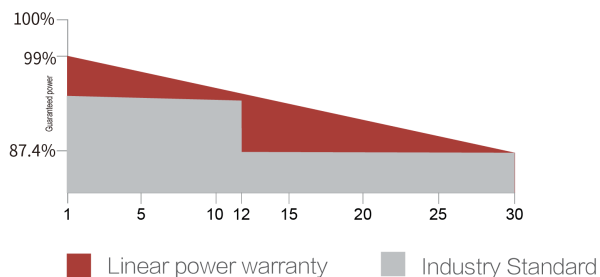


Industry-leading Quality Assurance

12 year
Product warranty

30 year
linear power warranty

-0.40%
Annual degradation



● Please refer to the warranty letter for details



Solar Power



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Electrical Data(STC*)

Module Type: NLBK-36	555	560	565	570	575	580
Rate Maximum Power(Pmax)(W)	555	560	565	570	575	580
Open Circuit Voltage(Voc) (V)	50.34	50.47	50.60	50.74	50.88	51.01
Short Circuit Current(Isc) (A)	14.07	14.15	14.23	14.31	14.39	14.47
Maximum Power Voltage(Vmp)(V)	41.64	41.77	41.92	42.07	42.22	42.36
Maximum Power Current (Imp) (A)	13.33	13.41	13.48	13.55	13.62	13.69
Module Efficiency (%)	21.48	21.68	21.87	22.07	22.26	22.45

*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-36	555	560	565	570	575	580
Rate Maximum Power(Pmax)(W)	415.0	418.9	422.6	426.3	430.1	436.8
Open Circuit Voltage(Voc) (V)	47.4	47.5	47.6	47.8	47.9	48.0
Short Circuit Current(Isc) (A)	11.36	11.42	11.48	11.55	11.61	11.68
Maximum Power Voltage(Vmp)(V)	39.0	39.1	39.2	39.3	39.4	39.5
Maximum Power Current (Imp) (A)	10.65	10.72	10.78	10.84	10.9	11.06

*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)	1500 (VDC)				
Maximun Fuse Current Rating(A)	25A				
Fire Safety	Class C				
Power Tolerance	0~+5W				
Bifacial Factor	80±5%				
PG. 570W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	599	627	656	684	713
Open Circuit Voltage(Voc) (V)	50.74	50.74	50.74	50.74	50.74
Short Circuit Current (Isc) (A)	14.43	14.80	15.47	16.14	16.81
Maximum Power Voltage(Vmp)(V)	42.07	42.07	42.07	42.07	42.07
Maximum Power Current(Imp) (A)	13.05	14.01	14.65	15.29	15.93

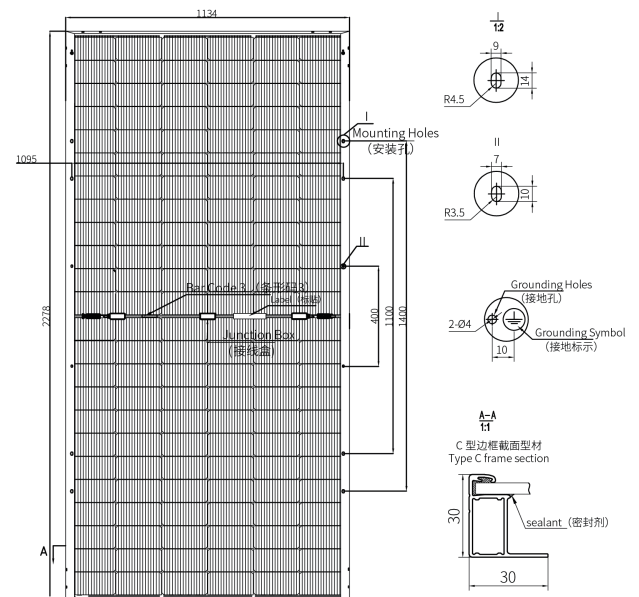
Mechanical Properties

Cell Type	182*91mm
Number of Cells	144
Dimension of Module	2278*1134*30mm
Weight	33.4KG±5%
Front Glass	2.0mm semi-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	620(31*20)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

