

AURO^N

N-Type Topcon Mono-facial Half Cell Module

555—575W NLK-36

Key Product Features



High conversion efficiency

Modules efficiency up to 22.26%
Average cell efficiency up to 24.2%



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

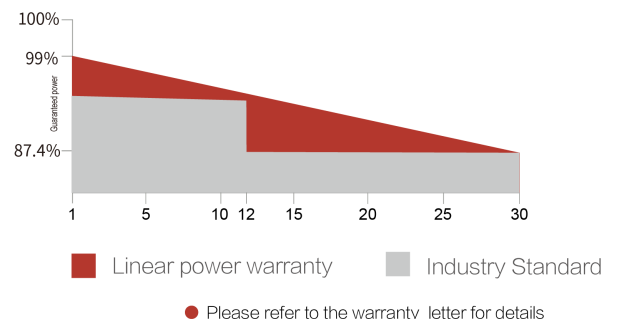
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

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

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

*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

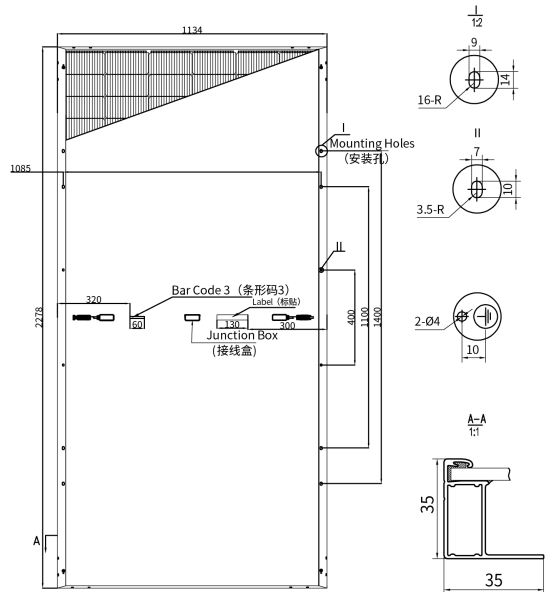
Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	144
Dimension of Module	2278*1134*35mm
Weight	27kg±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 ²);or Customized Length
Packing Information	620(31*20)pcs per 40'HQ

Temperature Coefficient

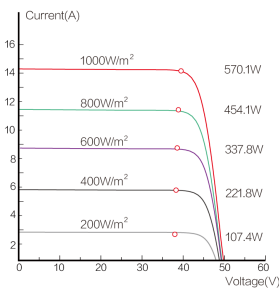
Peak Power Temperature Coefficient	-0.30%/°C
Open-Circuit Voltage Temperature Coefficient	-0.25%/°C
Short-Circuit Current Temperature Coefficient	0.046%/°C

Drawing



I-V curve

Current-Voltage Curve (570W)
Cells temp.=25°C



Power-Voltage Curve (570W)
Cells temp.=25°C

