



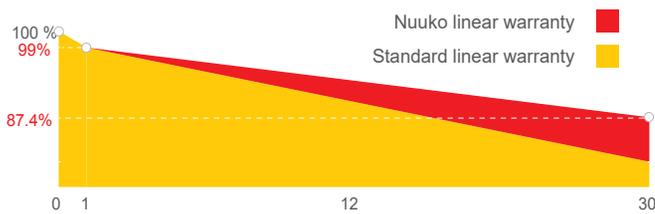
LIVE UP TO GOOD SUNSHINE

## NKM-108 N-type (210mm Cell)

# 570-590 Watt

BIFACIAL MODULE

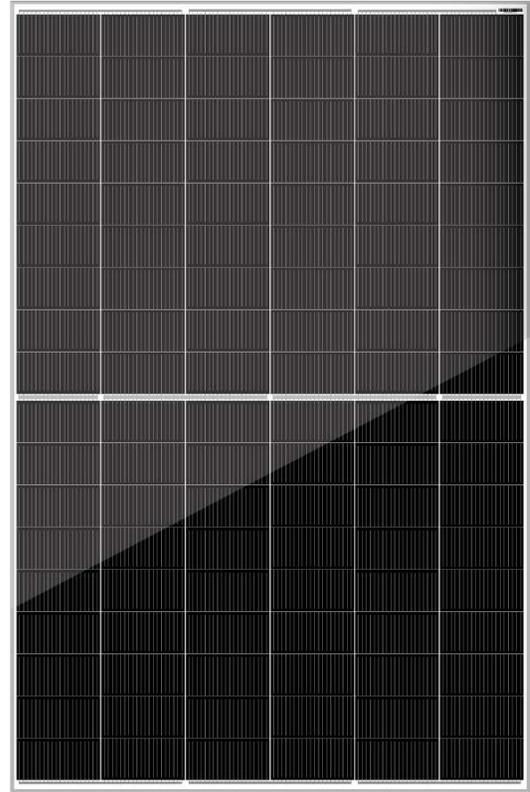
### Industry-leading Warranty based on nominal power



\* 0.4% Annual Degradation over 30 Years

\* 12 Year Product Warranty

\* 30 Year Linear Power Warranty



## Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

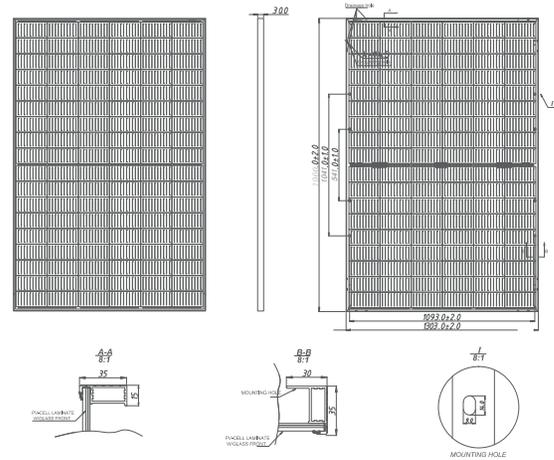


### Lower LCOE

Higher bifaciality, higher power output and lower BOS cost

## MECHANICAL SPECIFICATIONS

Cell Type	N type Mono-crystalline
Cell Arrangement	108 (6*18)
Weight	31.5kg
Module Dimensions	1960*1303*33mm
Cables	4.0mm <sup>2</sup> , ±300mm or Customized length
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	33pcs/carton, 594pcs/40hq
Frame	Anodized aluminum
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	NKM570N-108BDG12		NKM575N-108BDG12		NKM580N-108BDG12		NKM585N-108BDG12		NKM590N-108BDG12	
	STC	NMOT								
Rated output (Pmp/Wp)	570	430	575	434	580	438	585	442	590	446
Maximum Power Voltage(Vmpp/V)	33.23	31.27	33.36	31.40	33.49	31.53	33.62	31.66	33.75	31.79
Maximum Power Current(Imp/A)	17.15	13.75	17.24	13.82	17.32	13.89	17.40	13.96	17.48	14.03
Open Circuit Voltage(Voc/V)	39.70	37.87	39.83	37.99	39.96	38.11	40.09	38.24	40.22	38.37
Short Circuit Current(Isc/A)	17.99	14.33	18.05	14.38	18.11	14.43	18.17	14.48	18.23	14.53
Module efficiency(%)	22.3%		22.5%		22.7%		22.9%		23.1%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

## Electrical Characteristics with Different Rearside Power Gain(575W)

Pmax/W	604	633	661	690	719
Vmpp/V	33.36	33.36	33.36	33.36	33.36
Imp/A	18.10	18.96	19.83	20.69	21.55
Voc/V	39.83	39.83	39.83	39.83	39.83
Isc/A	18.95	19.86	20.76	21.66	22.56
Pmax gain	5%	10%	15%	20%	25%

## MAXIMUM RATINGS

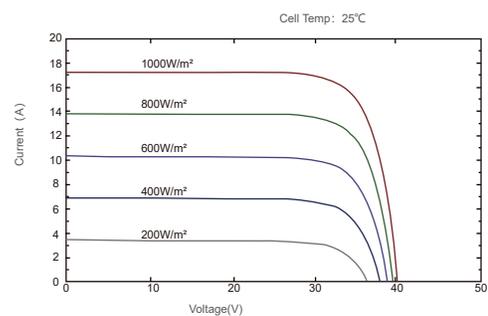
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Protection Class	II
Fire Type	Class C (IEC)
Bifacial	80±5%

## TEMPERATURE CHARACTERISTICS

NMOT Temperature	45°C±3°C
Temperature Coefficient (Pmax)	-0.29%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.045%/°C

## CURVE & TEMPERATURE DEPENDENCE

I-V Curves at NKM575N-108BDG12 at different Irradiances



Power voltage current curve at different temperature

