



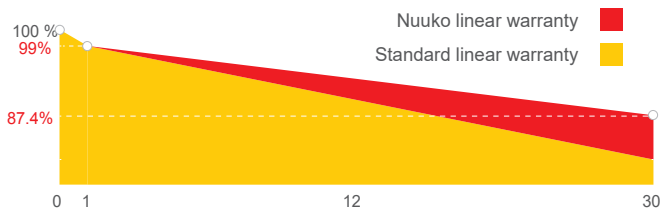
LIVE UP TO GOOD SUNSHINE

NKM-108 N-type (210mm Cell)

570-590 Watt

BIFACIAL MODULE

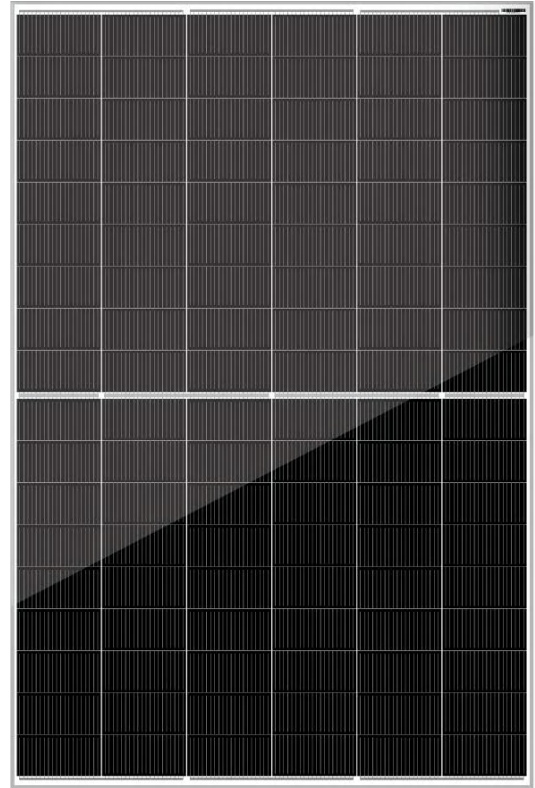
Industry-leading Warranty based on nominal power



* 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.

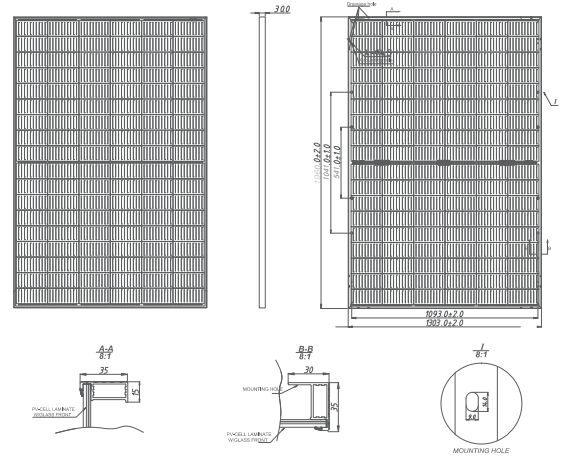


Lower LCOE

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 ² , ±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	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	570	430	575	434	580	438	585	442	590	446
Maximum Power Voltage(Vmp/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/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², 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
Vmp/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

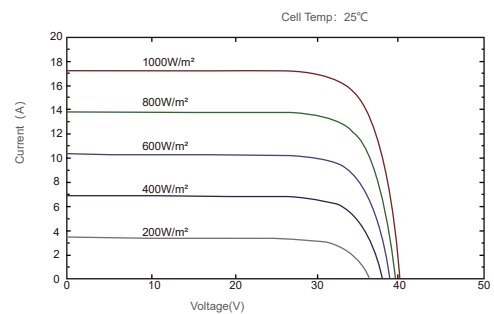
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Protection Class	II
Fire Type	Class C (IEC)
Bifacia	80±5%

TEMPERATURE CHARACTERISTICS

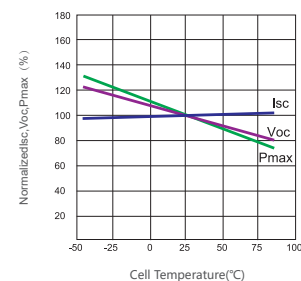
NMOT Temperature	45°C±3°C
Temprature Coefficient (Pmax)	-0.29%/°C
Temprature Coefficient (Voc)	-0.25%/°C
Temprature Coefficient (Isc)	0.045%/°C

CURVE & TEMPERATURE DEPENDENCE

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



Power voltage current curve at different temperature



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