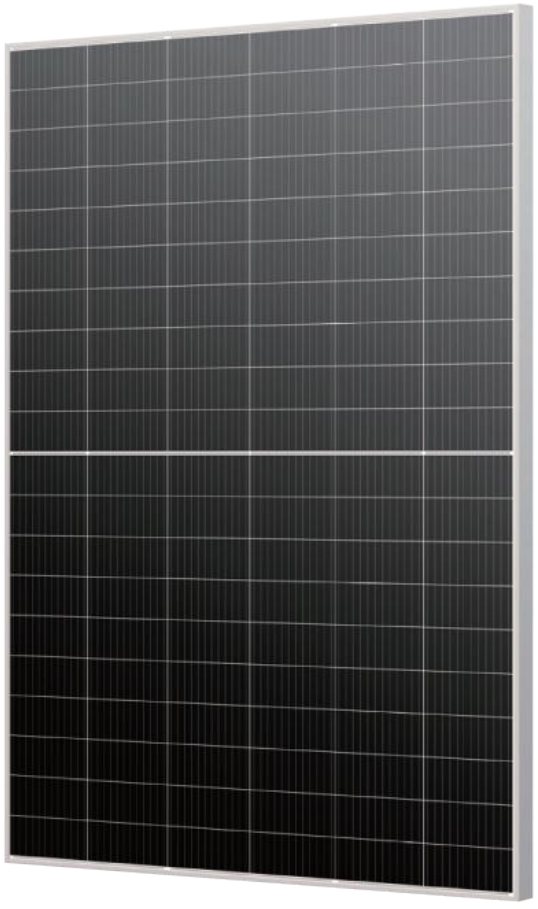
NUUKO

LIVE UP TO GOOD SUNSHINE

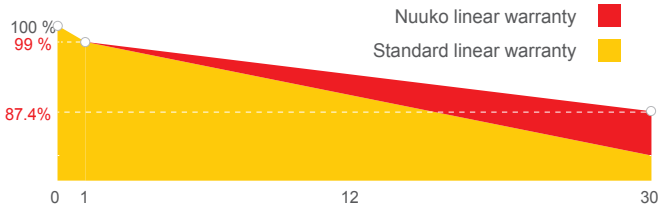
NKM-120 N-type（210mm Cell）

615-635 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 improvemodule power output and reliability.

Hot 2.0 Technology

The N-type module with Hot 2.0 technology has betterreliability 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.

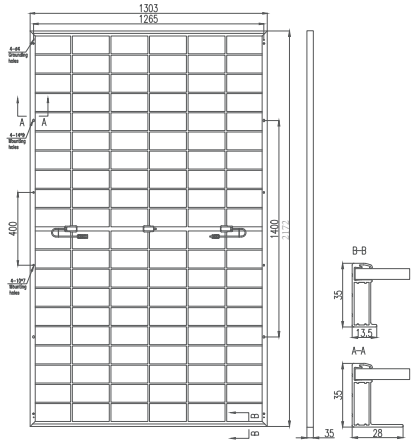
Lower LCOE

Higher bifaciality, higher power output and lower BOS cost

NKM-120N

MECHANICAL SPECIFICATIONS

Cell Type	TOPCon Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	120 (6*20)
Weight	35KG
Module Dimensions	2172*1303*35mm
Cables	TUV 4.0mm²(+): 300mm , (-): 200mm 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)	31pcs/pallet, 527pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	NKM615N-120BDG12		NKM620N-120BDG12		NKM625N-120BDG12		NKM630N-120BDG12		NKM635N-120BDG12	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	615	464	620	468	625	472	630	476	635	479
Maximum Power Voltage(Vmpp/V)	34.90	32.72	35.11	32.93	35.31	33.15	35.51	33.36	35.71	33.50
Maximum Power Current(Impp/A)	17.62	14.18	17.66	14.21	17.70	14.24	17.74	14.27	17.78	14.30
Open Circuit Voltage(Voc/V)	42.16	40.18	42.35	40.37	42.54	40.56	42.73	40.75	42.92	40.94
Short Circuit Current(Isc/A)	18.67	15.03	18.72	15.07	18.77	15.11	18.82	15.15	18.87	15.19
Module efficiency(%)	21.7%		21.9%		22.1%		22.3%		22.4%	
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 Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical Characteristics with Different Rearside Power Gain (Reference to 620 W Front)

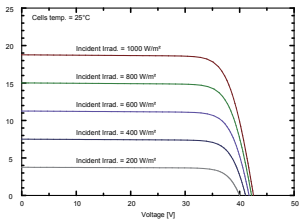
Pmax/W	651	682	713	744	775
Vmpp/V	35.11	35.11	35.11	35.11	35.11
Impp/A	18.54	19.43	20.31	21.20	22.08
Voc/V	42.35	42.35	42.35	42.35	42.35
Isc/A	19.66	20.59	21.53	22.46	23.40
Pmax gain	5%	10%	15%	20%	25%

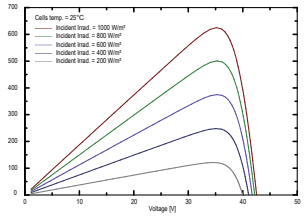
MAXIMUM RATINGS

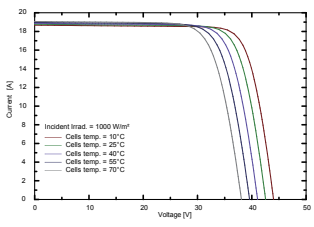
Maximum System Voltage	1500V DC（IEC）
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

CURVE & TEMPERATURE DEPENDENCE

NKM625N-120BDG12







TEMPERATURE CHARACTERISTICS

NMOT Temperature	42°C±2°C
Temprature Coefficient (Pmax)	-0.31%/°C
Temprature Coefficient (Voc)	-0.26%/°C
Temprature Coefficient (Isc)	0.046%/°C

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