



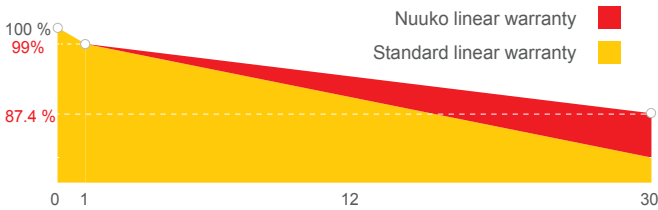
LIVE UP TO GOOD SUNSHINE

NKM-132 N Type (210mm Cell)

680-700 Watt

BIFACIAL MODULE

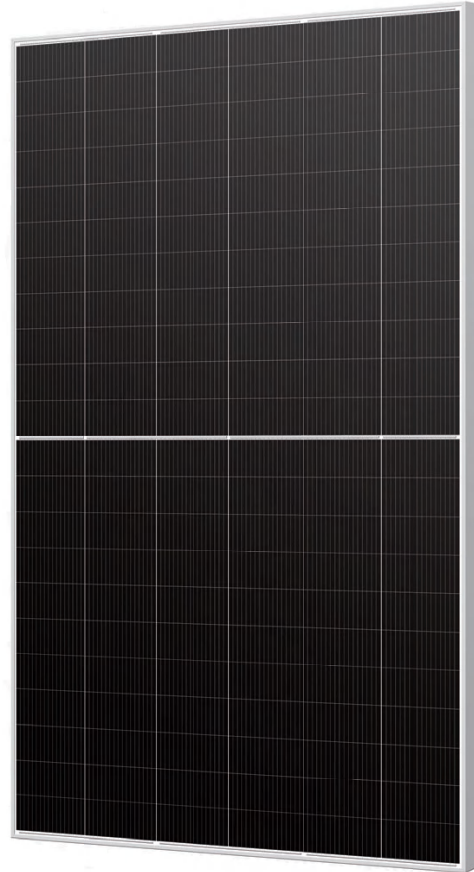
Industry-leading Warranty based on nominal power



* 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.

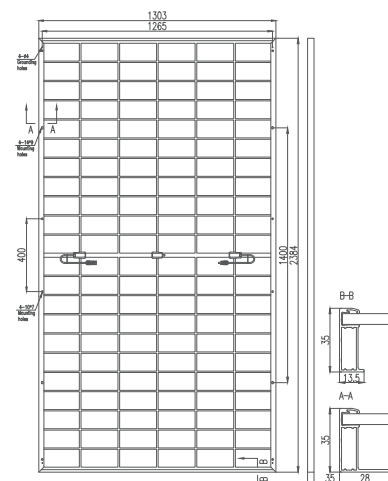


Lower LCOE

Higher bifaciality, higher power output and lower BOS cost

MECHANICAL SPECIFICATIONS

Cell Type	TOPCon Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	132 (6*22)
Weight	38KG
Module Dimensions	2384*1303*35mm
Cable Length	TUV 4.0mm ² , (+):300mm(-):200mm or Customized length
Cable Cross Section Size	TUV: 4mm ² /UL: 12AWG
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/pallet, 558pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	NKM680N-132BDG12		NKM685N-132BDG12		NKM690N-132BDG12		NKM695N-132BDG12		NKM700N-132BDG12	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	680	513	685	517	690	521	695	525	700	529
Maximum Power Voltage(Vmpp/V)	38.6	36.2	38.7	36.4	38.9	36.6	39.1	36.7	39.3	36.9
Maximum Power Current(Imp/A)	17.62	14.17	17.70	14.20	17.74	14.24	17.78	14.31	17.81	14.34
Open Circuit Voltage(Voc/V)	46.5	44.4	46.7	44.6	46.9	44.8	47.1	45.0	47.3	45.2
Short Circuit Current(Isc/A)	18.69	15.04	18.74	15.08	18.78	15.11	18.83	15.15	18.87	15.19
Module efficiency(%)	21.9%		22.1%		22.2%		22.4%		22.5%	
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 rear side power gain (refer to 690W front)

	725	759	794	828	863
Pmax/W					
Vmpp/V	38.9	38.9	38.9	38.9	38.9
Imp/A	18.63	19.51	20.40	21.29	22.18
Voc/V	46.9	46.9	46.9	46.9	46.9
Isc/A	19.72	20.66	21.60	22.54	23.48
Pmax gain	5%	10%	15%	20%	25%

MAXIMUM RATINGS

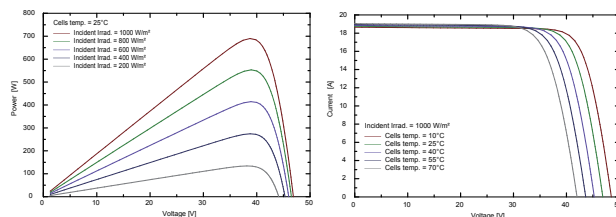
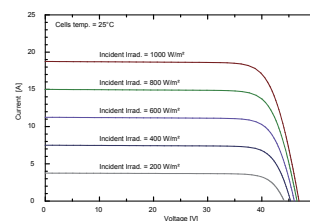
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

TEMPERATURE CHARACTERISTICS

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

CURVE & TEMPERATURE DEPENDENCE

NKM690N-132BDG12



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