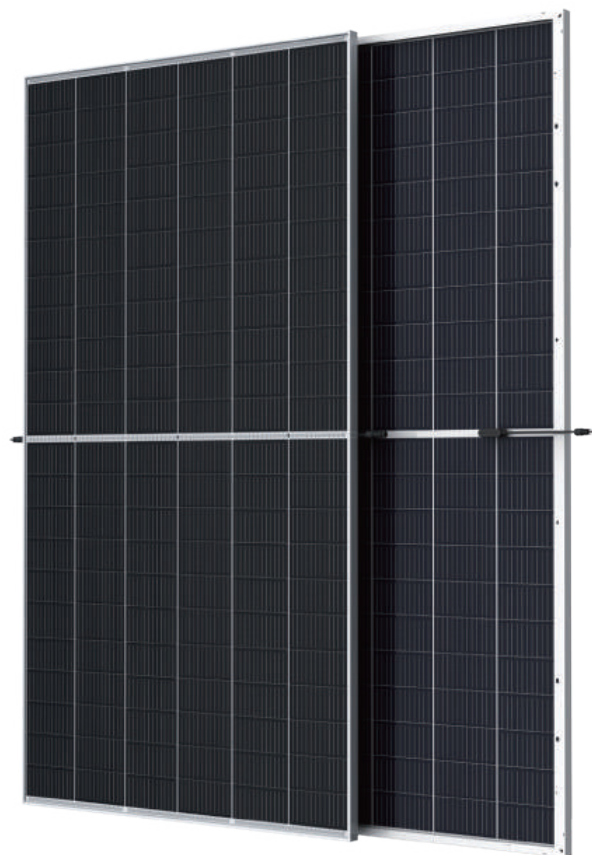
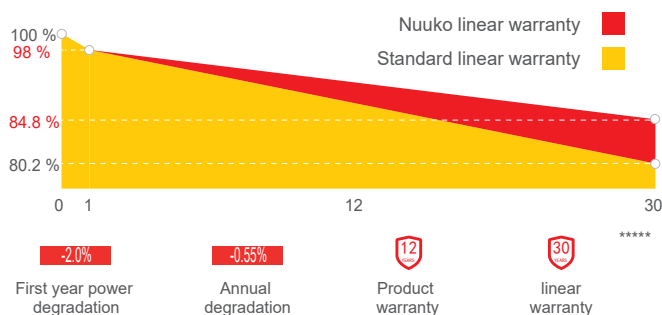


NKM-132 (210mm Cell)

645-665 Watt

BIFACIAL MODULE

Industry-leading Warranty based on nominal power



Features



High module conversion efficiency

Module efficiency up to 21.4% achieved through advanced cell technology and manufacturing process



Extended wind and snow load tests

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



Excellent weak light performance

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



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



Nuuko current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



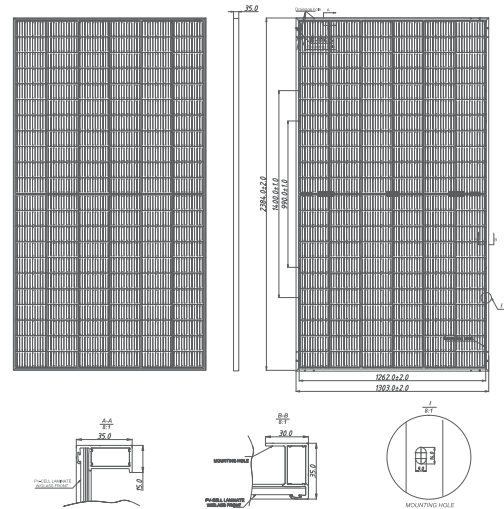
Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

NKM-132

MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	132 (6*22)
Weight	38.5kg
Module Dimensions	2384*1303*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm²/UL: 12AWG
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/Pallet, 558pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	NKM645-132G12		NKM650-132G12		NKM655-132G12		NKM660-132G12		NKM665-132G12	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	645	479	650	483	655	486	660	490	665	494
Maximum Power Voltage(Vmpp/V)	37.6	35.1	37.8	35.3	38.0	35.5	38.2	35.7	38.4	35.9
Maximum Power Current(Imp/A)	17.16	13.63	17.20	13.67	17.24	13.70	17.28	13.74	17.32	13.77
Open Circuit Voltage(Voc/V)	45.0	42.4	45.2	42.6	45.4	42.8	45.6	43.0	45.8	43.2
Short Circuit Current(Isc/A)	18.22	14.65	18.26	14.68	18.30	14.71	18.34	14.74	18.38	14.78
Module efficiency(%)	20.8%		20.9%		21.1%		21.3%		21.4%	
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 Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain (refer to 655W front)

Pmax/W	688	721	753	786	819
Vmpp/V	38.0	38.0	38.0	38.0	38.0
Imp/A	18.10	18.96	19.83	20.69	21.55
Voc/V	45.4	45.4	45.4	45.4	45.4
Isc/A	19.22	20.13	21.05	21.96	22.88
Pmax gain	5%	10%	15%	20%	25%

MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	35A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

TEMPERATURE CHARACTERISTICS

NMOT Temperature	43°C±2°C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.043%/°C

CURVE & TEMPERATURE DEPENDENCE

