

# Spiration Series

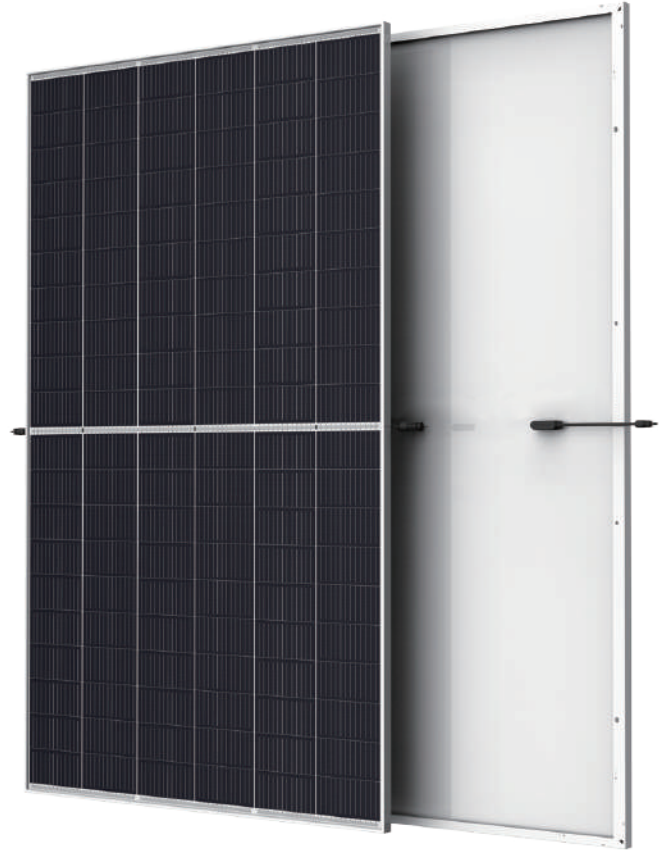
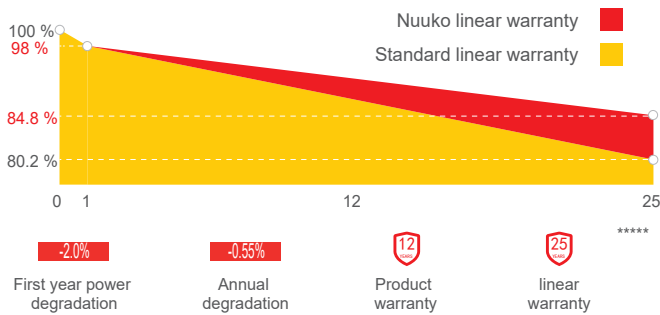
LIVE UP TO GOOD SUNSHINE

NKM-120 (210mm Cell)

**585-610 Watt**

MONOFACIAL MODULE

Industry-leading Warranty based on nominal power



## Features



### High module conversion efficiency

Module efficiency up to 21.6% achieved through advanced cell technology and manufacturing process



### Extended wind and snow load tests

Module certified to withstand extreme wind (3800 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

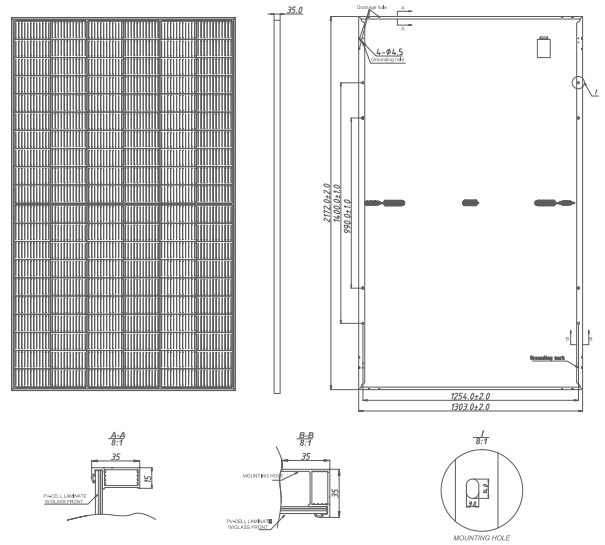


### Withstanding harsh environment

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

## MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	120 (6*20)
Weight	31.5kg (63.45lbs.)
Module Dimensions	2172*1303*35mm (85.51*51.30*1.38inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	NKM585-120G12		NKM590-120G12		NKM595-120G12		NKM600-120G12		NKM605-120G12		NKM610-120G12	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition												
Rated output (Pmp/Wp)	585	441	590	445	595	449	600	453	605	455	610	463
Maximum Power Voltage(Vmpp/V)	34.1	31.9	34.3	32.0	34.5	32.2	34.7	32.4	34.9	32.8	35.1	32.9
Maximum Power Current(Imp/A)	17.19	13.86	17.23	13.89	17.28	13.94	17.32	13.97	17.34	14.02	17.38	14.05
Open Circuit Voltage(Voc/V)	41.3	38.9	41.5	39.1	41.7	39.2	41.9	39.4	42.1	39.6	42.3	39.8
Short Circuit Current(Isc/A)	18.18	14.63	18.22	14.66	18.27	14.70	18.31	14.73	18.40	14.82	18.44	15.04
Module efficiency(%)	20.7%		20.8%		21.0%		21.2%		21.4%		21.6%	
Power Tolerance (W)	0~+5		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

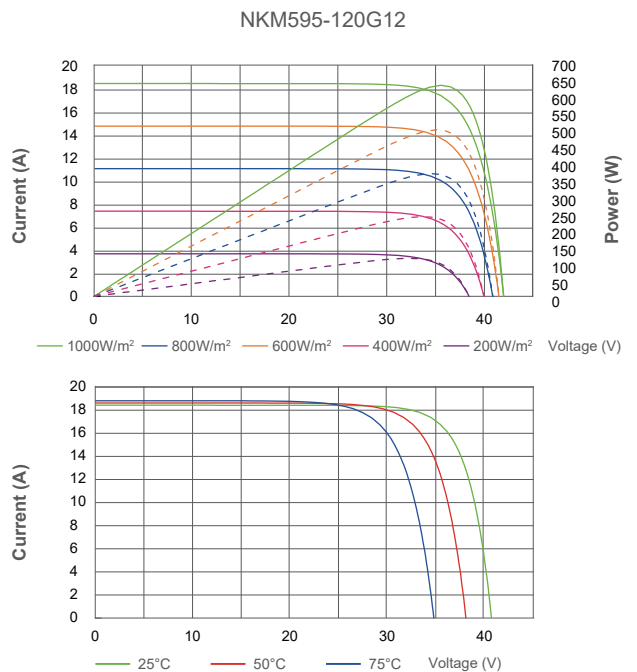
## MAXIMUM RATINGS

Maximum System Voltage	1000V/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
Connector	T01/LJQ-3-CSY/MC4/MC4+EVO2

## 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 DEPENDENC



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