

# Spiration Series

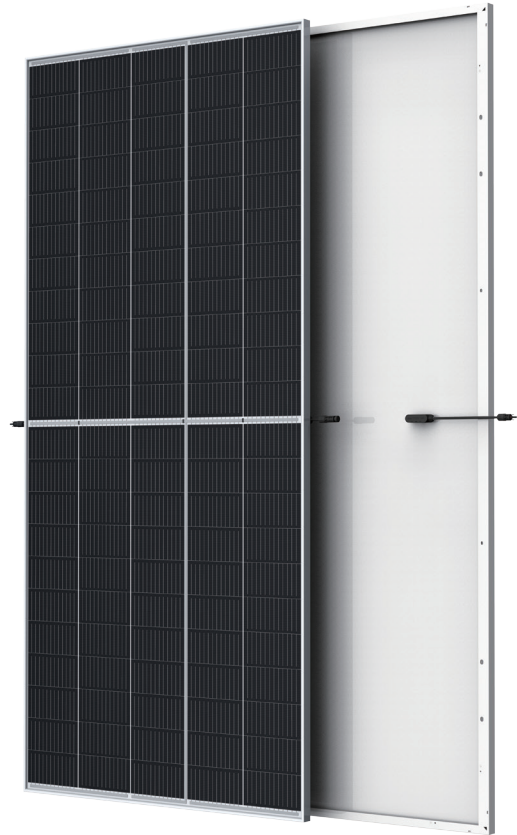
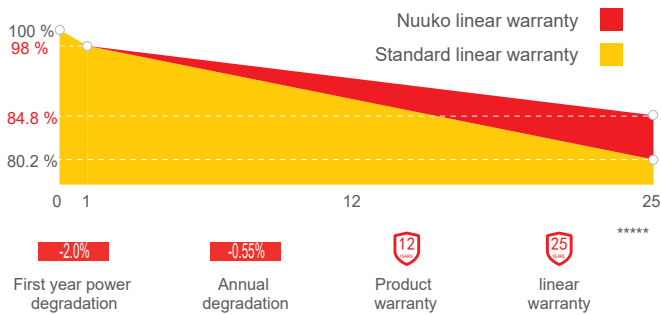
LIVE UP TO GOOD SUNSHINE

NKM-110 (210mm Cell)

## 530-555 Watt

MONOFACIAL MODULE

Industry-leading Warranty based on nominal power



## Features



### High module conversion efficiency

Module efficiency up to 21.2% 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

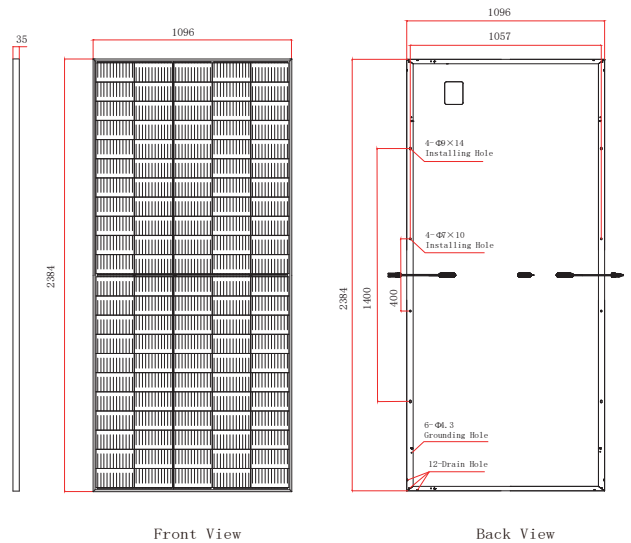


### Withstanding harsh environment

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	110 (5*22)
Weight	28.6kg (63.1lbs.)
Module Dimensions	2384*1096*35mm (93.86*43.15*1.38inches)
Cable Length	Portrait 280mm/Landscape 1400mm/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, 620pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	NKM530-110G12		NKM535-110G12		NKM540-110G12		NKM545-110G12		NKM550-110G12		NKM555-110G12	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	530	401	535	405	540	409	545	413	550	417	555	420
Maximum Power Voltage(Vmpp/V)	30.8	28.6	31.0	28.8	31.2	29.0	31.4	29.2	31.6	29.3	31.8	29.5
Maximum Power Current(Imp/A)	17.21	14.01	17.28	14.06	17.33	14.10	17.37	14.15	17.40	14.19	17.45	14.23
Open Circuit Voltage(Voc/V)	37.1	35.0	37.3	35.1	37.5	35.3	37.7	35.5	37.9	35.7	38.1	35.9
Short Circuit Current(Isc/A)	18.31	14.76	18.36	14.80	18.41	14.84	18.47	14.88	18.52	14.92	18.56	14.96
Module efficiency(%)	20.3%		20.5%		20.7%		20.9%		21.0%		21.2%	
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

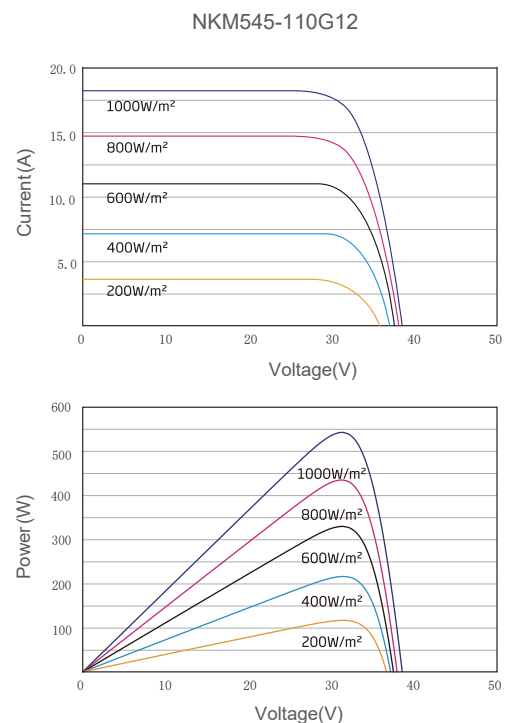
## MAXIMUM RATINGS

Maximum System Voltage	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)	-0.34%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.040%/°C

## CURVE & TEMPERATURE DEPENDENC



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