

# Star Series

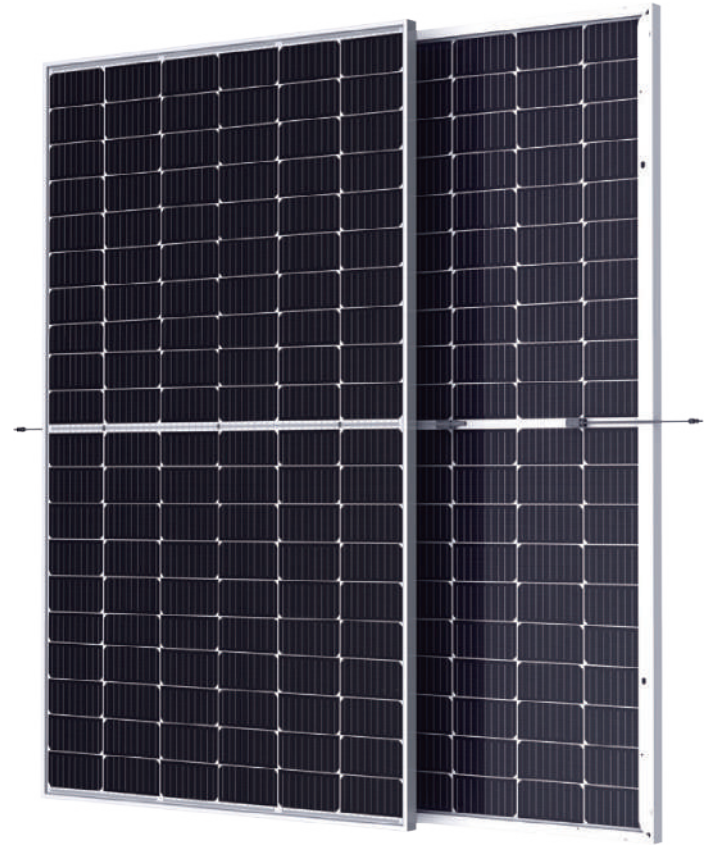
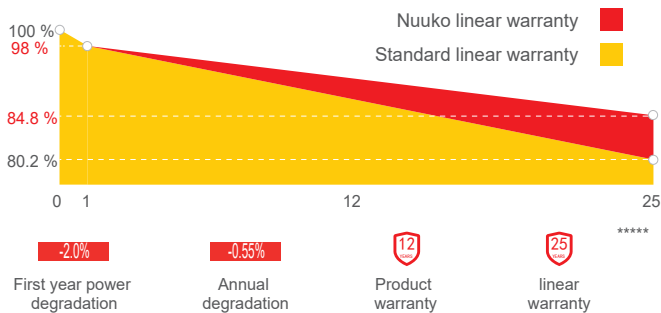
LIVE UP TO GOOD SUNSHINE

NKM-120 (166mm Cell)

## 355-375 Watt

BIFACIAL MODULE

Industry-leading Warranty based on nominal power



## Features



### High module conversion efficiency

Module efficiency up to 20.6% 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

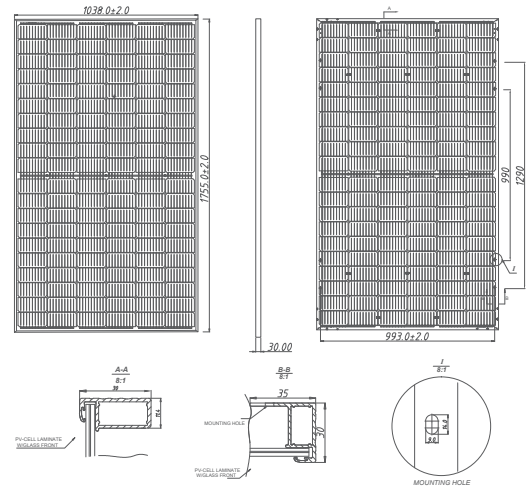


### Withstanding harsh environment

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

## MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	166*166mm
Cell Arrangement	120(6*20)
Weight	23.5kg (51.8lbs)
Module Dimensions	1755*1038*30mm (69.09*40.87*1.18inches)
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	2.0mm (0.08 inches) AR Coating Semi-tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	35pcs/carton, 910pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	NKM355M-120		NKM360M-120		NKM365M-120		NKM370M-120		NKM375M-120	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	355	264	360	267	365	271	370	274	375	278
Maximum Power Voltage(Vmpp/V)	34.0	31.4	34.3	31.6	34.6	31.9	34.9	32.1	35.2	32.3
Maximum Power Current(Imp/A)	10.45	8.43	10.50	8.46	10.56	8.50	10.61	8.55	10.66	8.60
Open Circuit Voltage(Voc/V)	40.5	37.7	40.7	37.9	40.9	38.0	41.1	38.2	41.3	38.4
Short Circuit Current(Isc/A)	11.10	8.96	11.15	9.00	11.20	9.04	11.26	9.09	11.31	9.13
Module efficiency(%)	19.5%		19.8%		20.0%		20.3%		20.6%	
Power Tolerance (W)	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

### Electrical characteristics with different rear side power gain (refer to 360W front)

	378	397	419	434	452
Pmax/W					
Vmpp/V	33.9	33.9	33.9	34.1	34.1
Imp/A	11.15	11.74	12.38	12.74	13.28
Voc/V	40.5	40.5	40.5	40.7	40.7
Isc/A	11.90	12.46	13.03	13.60	14.16
Pmax gain	5%	10%	15%	20%	25%

## MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
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
Backside Output Ratio*	70% ± 5%

## 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

