

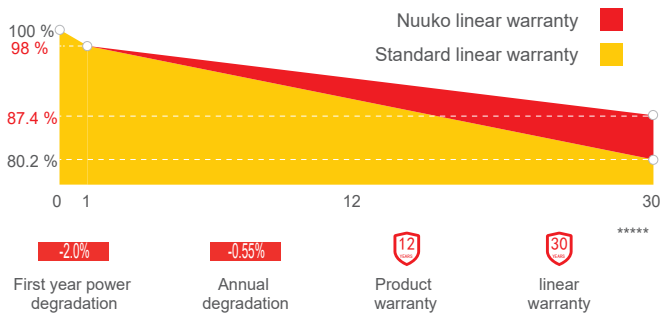
LIVE UP TO GOOD SUNSHINE

## NKM-144 N-type (182mm Cell)

# 565-585 Watt

MONOFACIAL MODULE

### Industry-leading Warranty based on nominal power



## 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 (3800 Pascal) and snow loads (5400 Pascal) \*



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

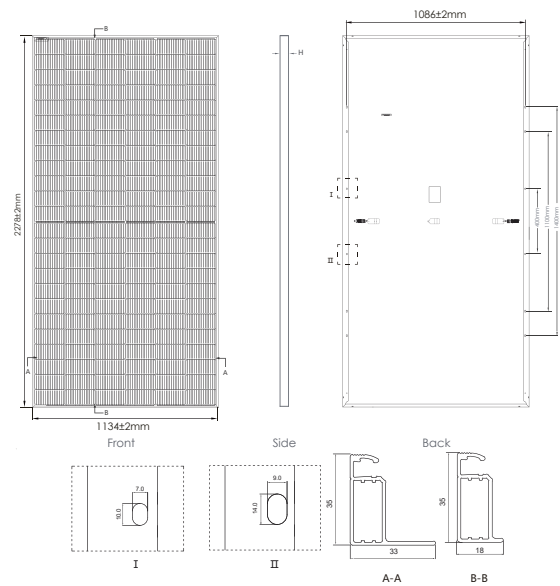


### Lower LCOE

Higher bifaciality, higher power output and lower BOS cost

## MECHANICAL SPECIFICATIONS

Cell Type	N TOPCon Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	28kg (61.73lbs.)
Module Dimensions	2278*1134*35mm (89.69*44.65*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, 620pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	NKM565N-144M10		NKM570N-144M10		NKM575N-144M10		NKM580N-144M10		NKM585N-144M10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	565	425	570	429	575	432	580	436	585	440
Maximum Power Voltage(Vmpp/V)	41.9	39.4	42.1	39.5	42.2	39.6	42.4	39.7	42.5	39.8
Maximum Power Current(Imp/A)	13.48	10.79	13.55	10.85	13.62	10.92	13.69	10.99	13.76	11.05
Open Circuit Voltage(Voc/V)	50.6	48.1	50.7	48.2	50.9	48.3	51.0	48.5	51.2	48.6
Short Circuit Current(Isc/A)	14.23	11.49	14.31	11.55	14.39	11.62	14.47	11.68	14.55	11.75
Module efficiency(%)	21.9%		22.1%		22.3%		22.5%		22.7%	
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

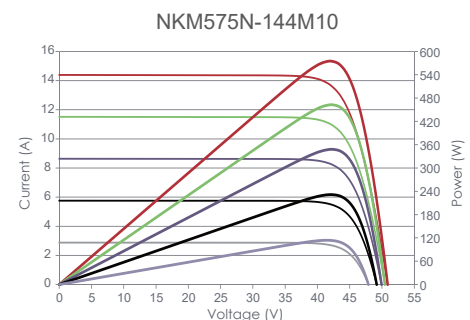
## MAXIMUM RATINGS

Maximum System Voltage	1000V/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

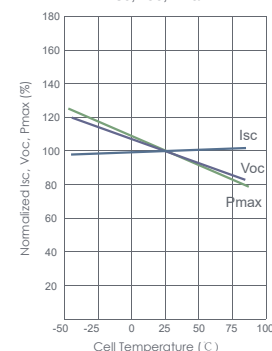
## TEMPERATURE CHARACTERISTICS

NMOT Temperature	45°C±2°C
Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.046%/°C

## CURVE & TEMPERATURE DEPENDENC



Temperature Dependence of Isc, Voc, Pmax



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