

LIVE UP TO GOOD SUNSHINE

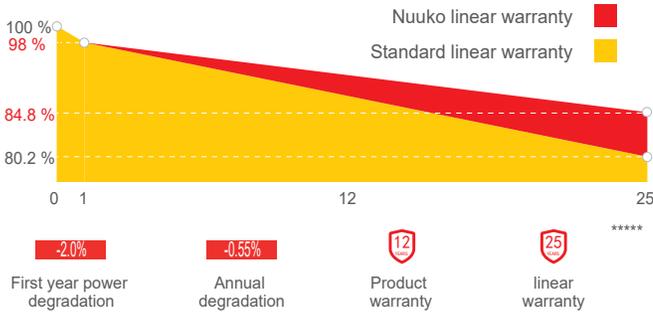
NKxxxPM5-72SB

470-490 Watt

Shingled monofacial module



Industry-leading Warranty based on nominal power



Features



Shingling Technology

Innovative structure, low-temperature adhesive bonding, high-density layout.



Low Shading Loss

Full parallel arrangement brings high effective power generation hours.



Beautiful Appearance

Uniform layout, better aesthetic.



Low System Cost

High module efficiency, reducing system cost.



Superior Safety and Reliability

No hidden welding crack, low operating temperature, high pressure resistance.



Eco-friendly

Adhering to green philosophy, no fluorine and low lead.



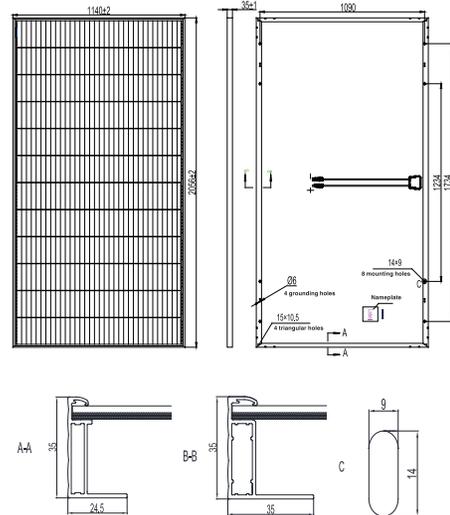
Low Hot Spot Risk

Parallel circuit design reduces shading loss.

NUUKO has been in development for more than 5 years. The company has an automated production workshop. Up to now, it has provided solar modules, system solutions and customized services for more than 40 countries around the world. NUUKO has created a "closed-loop" development model of solar module R&D and production, and distribution cooperation. Its business also covers power station development and investment, solar system integration and sales, etc. Committed to becoming the world's leading new energy company, creating a sustainable future through clean solar energy.

MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	166*166mm
Cell Arrangement	120 (6*20)
Weight	25.0kg (46.3lbs.)
Module Dimensions	2056*1140*35mm (69.06*43.15*1.18inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/carton, 682pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	NKxxxPM470-72SB		NKxxxPM475-72SB		NKxxxPM480-72SB		NKxxxPM485-72SB		NKxxxPM490-72SB	
	STC	NMOT								
Testing Condition	STC	NMOT								
Rated output (Pmp/Wp)	470	354	475	358	480	361	485	365	490	369
Maximum Power Voltage(Vmpp/V)	38.6	36.8	38.7	36.9	38.8	37.0	38.8	37.0	38.9	37.1
Maximum Power Current(Imp/A)	12.18	9.62	12.27	9.69	12.37	9.77	12.50	9.87	12.60	9.95
Open Circuit Voltage(Voc/V)	46.4	44.2	46.5	44.3	46.6	44.4	46.6	44.4	46.7	44.5
Short Circuit Current(Isc/A)	13.04	10.52	13.10	10.57	13.16	10.62	13.22	10.67	13.28	10.72
Module efficiency(%)	20.1%		20.3%		20.5%		20.7%		20.9%	
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

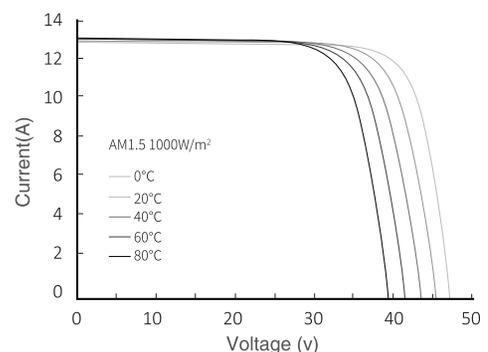
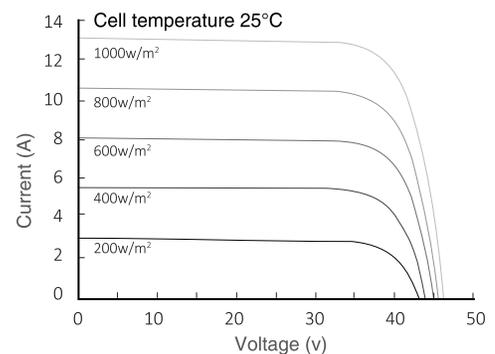
MAXIMUM RATINGS

Maximum System Voltage	1000/1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
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)	-0.27%/°C
Temperature Coefficient (Isc)	0.040%/°C

CURVE & TEMPERATURE DEPENDENC



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