



NANO GEL SOLAR PAINT

INTRODUCING

Nano Gel Solar Technology, a groundbreaking advancement in solar energy innovation that has redefined the efficiency standards of solar energy. This revolutionary technology boasts an extraordinary efficiency rate of 37.6%, setting a new benchmark in the solar energy industry.



KEY FEATURES



Record-Breaking Efficiency:

Achieving an outstanding 37.6% efficiency, Nano Gel Solar Technology surpasses conventional solar cells, maximizing energy output per square meter.



Thermal Management:

Advanced thermal properties prevent overheating and maintain peak performance in diverse environmental conditions, ensuring reliability and longevity.



Flexible Design:

The nanogel's flexibility enables the creation of lightweight and adaptable solar surfaces, opening possibilities for integration in various applications and structures.

This revolutionary Nano Gel Solar Technology not only sets a new standard for solar energy collection efficiency but also opens up exciting possibilities for widespread adoption of solar energy, paving the way for more sustainable and eco-friendly power solutions.



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NANO GEL SOLAR PAINT DATA SHEET

Electrical Characteristics:

	2 sqm	4 sqm
Maximum Power (Pmax):	750W	1500W
Voltage at Maximum		
Power Point (Vmp):	42.0 V	42.0 V
Current at Maximum		
Power Point (Imp):	17.85 A	35.70 A
Open-Circuit Voltage (Voc):	42.0 V	42.0 V
Short-Circuit Current (Isc):	17.85 A	35.70 A

Mechanical Characteristics:

Dimensions:	2m x 1m	2m x 2m
Weight:	2 kg	4 kg
Solar Type:	Nano Gel	Nano Gel
Base Type:	Various	Various

Temperature Characteristics:

Temperature Coefficient of Pmax:	-0.4% per °C
Temperature Coefficient of Voc:	-0.3% per °C
Temperature Coefficient of Isc:	0.04% per °C

Operating Conditions:

Maximum System Voltage:	1000 V
Operating Temperature Range:	-40°C to 85°C
Maximum Series Fuse Rating:	15 A
Hail Impact Resistance:	25 mm hail at 23 m/s max

Certifications and Standards:

TÜV SÜD laboratory review:	Finished
TÜV SÜD field test review:	Finished
IEC 61215:	Pending
IEC 61730:	Pending
CE (Conformité Européenne):	Finished



CE From an EU point of view, two certifications are of special interest: the European Union (CE) certification seal and the TÜV certification.



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Warranty:

Performance Warranty:	20 years
Product Warranty:	12 years

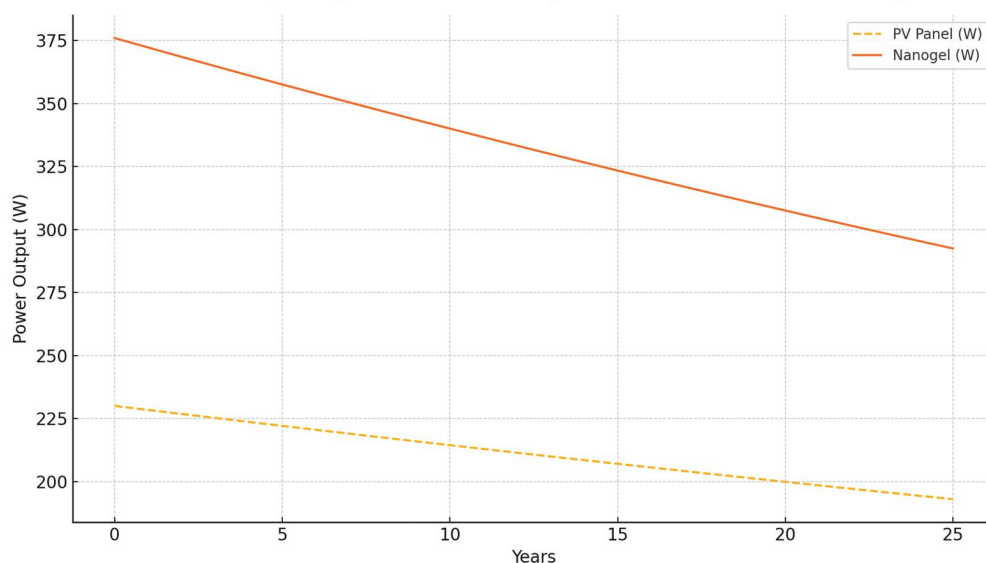
Additional Information:

Module Efficiency:	37.6%
Junction Box:	IP65 rated with bypass diodes
Connector Type:	MC4-compatible connectors

Environmental Impact:

Carbon Footprint:	750kg/1500kg CO ₂ per 2sqm/4sqm
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Efficiency degradation comparison PV Panel/Nanogel



The electrical data apply to standard test conditions (STC): Irradiance of 1000W/m² with spectrum AM 1.5 and temperature of 25°C.



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