

## Nexa TOPCon N-type

# > 420 - 450W

+23.0%

### Module efficiency

Module efficiency up to 23.04 %



### Different designs

Black - Silver



### PID resistance

Certified according to IEC TS 62804 standards



### Increased resistance

Certified resistance against salt mist and ammonia



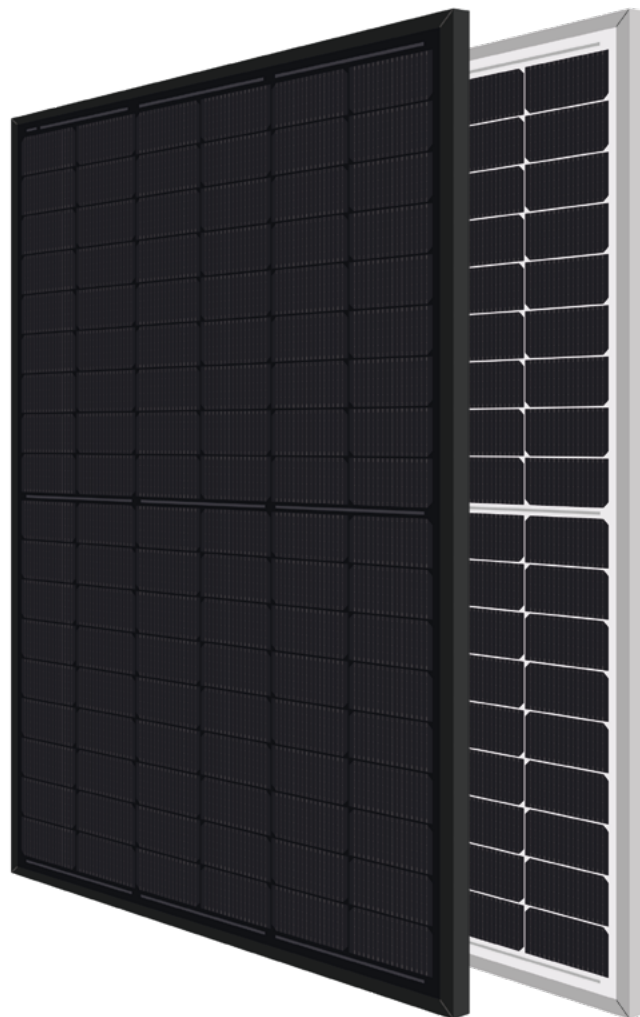
### Hail resistance

RG3/HW3 certified



### Easy to handle

Comfortable installation thanks to an optimized area size



# 20

Years

### Product Warranty

+5 years for Premium Partners

# 30

Years

### Performance Warranty

Linear Warranty

**1%** First year degradation

**0.38%** Annual degradation

**88%** Power in year 30

### Light up your world with Eurener

Eurener's extensive portfolio of certifications and awards is testament to our unwavering commitment to our partners and our deep sense of social and ethical responsibility.



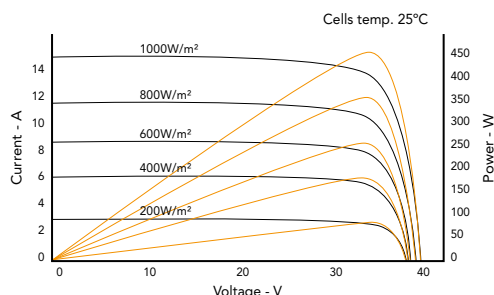
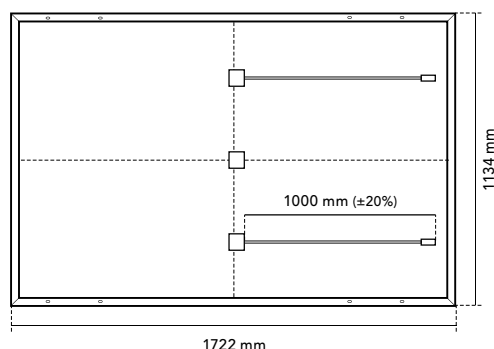
Spanish Quality  
Worldwide



Awarded as TOP Brand PV  
in -FR-SW-BE-UK-



EcoVadis  
Platinum Medal



## Mechanical Specification

Solar cells	N-Type monocrystalline silicon cells
Front Glass	3.2 mm thick tempered glass with high strength and ARC
Frame	Black/silver anodized aluminium
Junction Box	IP68, 3 by-pass diodes
Connector	Original MC4-Evo 2
Cable	1000 mm (±20%) length and 4 mm² section
Dimension	1722 x 1134 x 30 mm (±1%)
Area	1.95 m²
Weight	22 kg
Packaging	962 pcs/truck

## Temperature Coefficients

Temperature coefficient of Isc ( $\alpha$ )	0.045 %/°C
Temperature coefficient of Voc ( $\beta$ )	-0.275 %/°C
Temperature coefficient of Pmax ( $\gamma$ )	-0.29 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature (NOCT)	45 ± 2 °C

	MEPV 420	MEPV 425	MEPV 430	MEPV 435	MEPV 440	MEPV 450
<b>Electrical Characteristics</b>						
	STC					
Nominal power. Pmax	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	450 Wp
Short-circuit current (Isc)	14.08 A	14.16 A	14.26 A	14.30 A	14.37 A	14.52 A
Open-circuit voltage (Voc)	38.09 V	38.28 V	38.42 V	38.70 V	38.91 V	39.33 V
Maximum power current (Imp)	13.34 A	13.42 A	13.52 A	13.56 A	13.63 A	13.76 A
Maximum power voltage (Vmp)	31.49 V	31.68 V	31.82 V	32.09 V	32.30 V	32.71 V
Module efficiency	21.51 %	21.76 %	22.02 %	22.28 %	22.53 %	23.04 %
<b>Electrical Characteristics</b>						
	NOCT					
Nominal power. Pmax	322 Wp	325 Wp	329 Wp	333 Wp	337 Wp	345 Wp
Short-circuit current (Isc)	11.34 A	11.41 A	11.47 A	11.54 A	11.61 A	11.75 A
Open-circuit voltage (Voc)	36.52 V	36.70 V	36.88 V	37.06 V	37.24 V	37.61 V
Maximum power current (Imp)	10.75 A	10.81 A	10.88 A	10.94 A	11.01 A	11.14 A
Maximum power voltage (Vmp)	29.92 V	30.10 V	30.27 V	30.45 V	30.63 V	30.99 V

\* STC: 1000 W/m², module temperature 25°C, AM 1.5

\* NOCT: 800 W/m², ambient temperature 20°C, AM 1.5

## Operating parameters

Maximum voltage	1500 V
Maximum series fuse rating. Ir	25 A
Power output tolerance	0 - +3 %
Voc and Isc tolerance	± 3 %
Fire rating	Class C (UL 790)
Protection class	Class II (IEC 61140)
Mechanical loads	Front load 5400 Pa, Back load 2400 Pa

## Corporate and product certificates

ECOVADIS rating - Platinum Medal (TOP 1%)
Solar Industry Forced Labor Prevention Pledge by SEIA
ISO9001:2015 - Quality Management Systems
ISO14001:2015 - Environmental Management System
WEEE compliance in Germany
PV CYCLE Italy
IEC 61215 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval
IEC 61730 - Photovoltaic (PV) module safety qualification
IEC 61701 - Photovoltaic (PV) modules - Salt mist corrosion testing
IEC 62716 - Photovoltaic (PV) modules - Ammonia corrosion testing
IEC TS 62804 - Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation
Hail resistance HW3/RG3
Certificate of Factory Production Control (UK) - MCS
Fire reaction class: 1 - LPI



NOTE: Read the safety and installation manual before using the product. This data sheet is not legally binding, Eurener reserves the right of final interpretation. Eurener reserves the right to change the product characteristics and/or specifications without prior notice. The latest versions of all documents can always be found on our website at [www.eurener.com](http://www.eurener.com).

**SINCE**  
**1997**  
more than  
energy

**eurener.com**  
[contact@eurenerworld.com](mailto:contact@eurenerworld.com)  
+34 960 045 515  
Calle Colón, 1-23  
46004, Valencia, Spain

## European Experts in Residential modules

Since 1997 our main purpose has been to supply quality and long-lasting photovoltaic modules that allow us and future generations, to continue generating clean energy to take care of our planet.