

Nexa 420-440W

TOPCon N-type

› Black – Standard



Efficiency

Module efficiency up to 22.52 %



N-type cell

Higher resistance to LID and LeTID



TOPCon

Technology to increase cell efficiency



SuperMBB

Reduced resistance losses and improved current collection



Easy to handle

Comfortable installation thanks to an optimized area size



Wider irradiance range

Improved performance under dawn, sunset and cloudy skies



20 Years

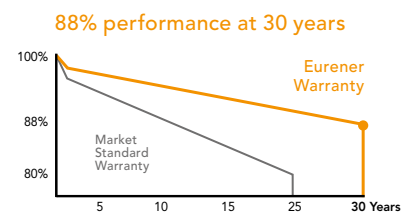
Product Warranty

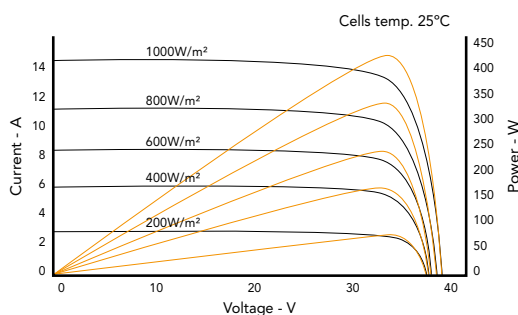
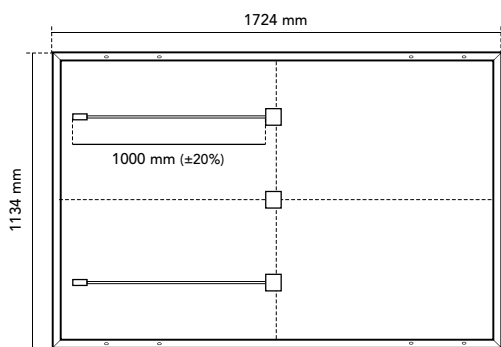
+5 years for Premium Partners

30 Years

Performance Warranty

Linear Warranty





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 mm ² section
Dimension	1724 x 1134 x 30 mm (±1%)
Area	1,96 m ²
Weight and packaging	22 kg, 962 pcs-truck

Temperature Coefficients	
Temperature coefficient of Isc (α)	0,045 %/°C
Temperature coefficient of Voc (β)	-0,275 %/°C
Temperature coefficient of Pmax (γ)	-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
STC: 1000 W/m², module temperature 25°C, AM 1,5					
Nominal power. Pmax	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp
Module efficiency	21,49%	21,75%	22,01%	22,26%	22,52 %
Short-circuit current (Isc)	14,08 A	14,16 A	14,26 A	14,30 A	14,37 A
Open-circuit voltage (Voc)	38,09 V	38,28 V	38,42 V	38,70 V	38,91 V
Maximum power current (Imp)	13,34 A	13,42 A	13,52 A	13,56 A	13,63 A
Maximum power voltage (Vmp)	31,49 V	31,68 V	31,82 V	32,09 V	32,30 V
NOCT: 800 W/m², ambient temperature 20°C, AM 1,5					
Nominal power. Pmax	321,64 Wp	325,38 Wp	329,33 Wp	333,12 Wp	337,00 Wp
Short-circuit current (Isc)	11,34 A	11,41 A	11,47 A	11,54 A	11,61 A
Open-circuit voltage (Voc)	36,52 V	36,70 V	36,88 V	37,06 V	37,24 V
Maximum power current (Imp)	10,75 A	10,81 A	10,88 A	10,94 A	11,01 A
Maximum power voltage (Vmp)	29,92 V	30,10 V	30,27 V	30,45 V	30,63 V
Operating parameters					
Maximum voltage	1000 - 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)				
Hail resistance	HW3/RG3				
Mechanical loads	Front load 5400 Pa, Back load 2400 Pa				

NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m², AM 1,5 and cells temperature of 25°C. Measurement tolerance +/-3% (AAA Solar simulation -IEC 60.904-9-). All the information of this brochure may be amended without notice by Eurener.
 Eurener MEPV_NEXA_420-440W_EN_MAR2024



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Manufacturing a better world

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.