

Nexa 420-440W

TOPCon N-type Bifacial

› Black – Standard



Efficiency

Module efficiency up to 22.52 %



N-type cell

Higher resistance to LID and LeTID



TOPCon

Technology to increase cell efficiency



Bifacial cell

Improved energy yield



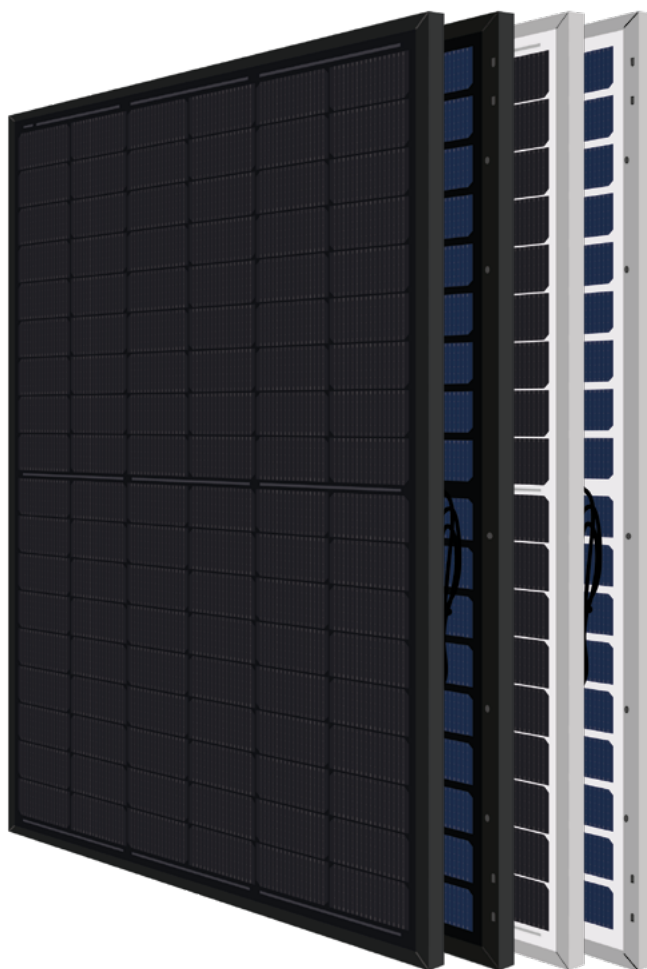
Easy to handle

Comfortable installation thanks to an optimized area size



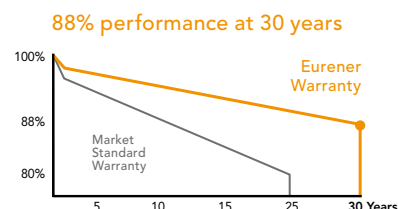
Sustainable product

High percentage of recyclable materials



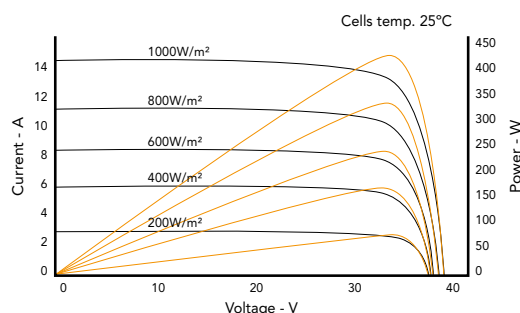
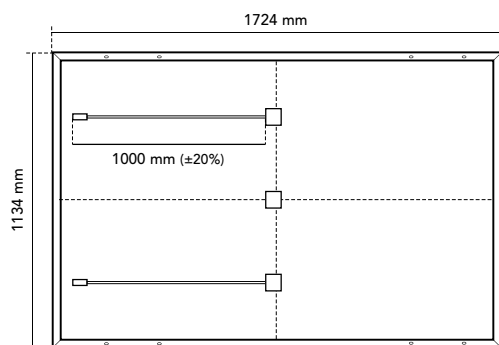
30 Years
Product Warranty

30 Years
Performance Warranty
Linear Warranty





Eurener MEPV — NEXA Bifacial 420-440W



Mechanical Specification

Solar cells	N-Type bifacial monocrystalline silicon cells
Front Glass	2mm anti-reflective surface tempered solar glass
Back Glass	2mm tempered solar glass
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	1724 x 1134 x 30 mm (±1%)
Area	1,96 m²
Weight and packaging	24 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	322 Wp	325 Wp	329 Wp	333 Wp	337 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
Electrical characteristics with 10% rear side power gain					
Nominal power. Pmax	462 Wp	468 Wp	473 Wp	479 Wp	484 Wp
Short-circuit current (Isc)	15,43 A	15,52 A	15,63 A	15,67 A	15,81 A
Open-circuit voltage (Voc)	38,09 V	38,31 V	38,49 V	38,85 V	38,91 V
Maximum power current (Imp)	14,63 A	14,72 A	14,82 A	14,86 A	14,99 A
Maximum power voltage (Vmp)	31,58 V	31,76 V	31,91 V	32,21 V	32,30 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 A (UL 790)				
Protection class	Class II (IEC 61140)				
Hail resistance	Ø 25mm at 23 m/s (IEC 61215)				
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 Bifacial_420-440W_EN_APR2024

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1997
more than
energy



eurener.com
contact@eurenerworld.com
+34 960 045 515
Calle Colón, 1-23
46004, Valencia. Spain

www.project-zero.be
sales@project-zero.be
+32 56 711 501
Windhoek 29
8790 Waregem. België

 **ProjectZero**
SMART SOLAR EQUIPMENT