

Nexa

Bif

MEPV 120 cells — Eurener PV Module

> **475/480Wp**



N-type cell

Higher resistance to LID and LeTID



TOPCon

Technology to increase cell efficiency



Bifacial cell

Improved energy yield



SuperMBB

Reduced resistance losses and improved current collection



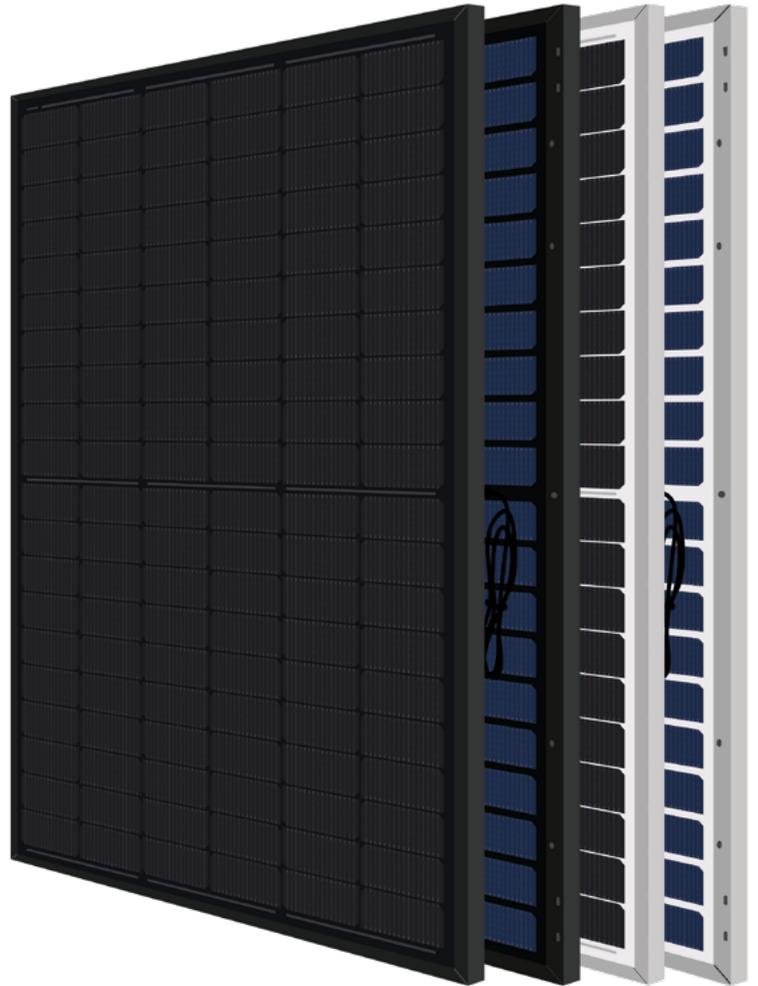
Better temperature coefficient

Minimized thermal losses, improved efficiency



Sustainable product

High percentage of recyclable materials



25 Years

Product Warranty

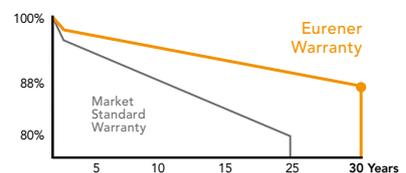
+5 years for Premium Partners

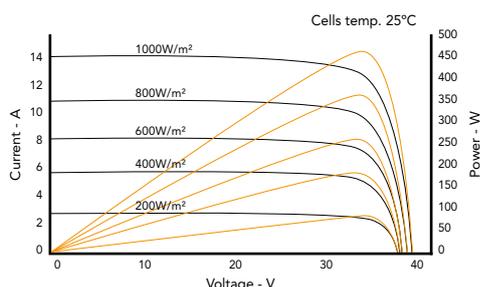
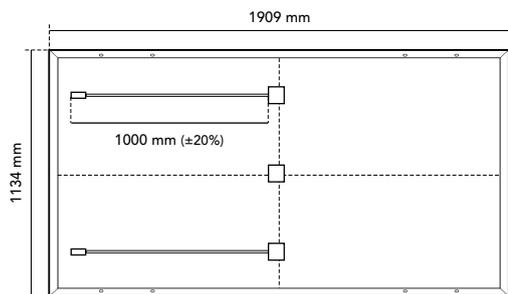
30 Years

Performance Warranty

Linear Warranty

88% performance at 30 years





Mechanical Specification	
Solar cells	120 (6 x 20), N-Type bifacial monocrystalline silicon cells
Front Glass	2mm anti-reflective surface solar glass
Back Glass	2mm 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 mm ² section
Dimension	1909 x 1134 x 30 mm (±1%)
Area	2,16 m ²
Weight and packaging	25,9 kg, 864 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

Black - Standard	MEPV 475	MEPV 480
STC: 1000 W/m², module temperature 25°C, AM 1,5		
Nominal power. Pmax	475 Wp	480 Wp
Module efficiency	21,95 %	22,18 %
Short-circuit current (Isc)	14,24 A	14,34 A
Open-circuit voltage (Voc)	42,53 V	42,63 V
Maximum power current (Imp)	13,50 A	13,60 A
Maximum power voltage (Vmp)	35,20 V	35,31 V
NOCT: 800 W/m², ambient temperature 20°C, AM 1,5		
Nominal power. Pmax	357,14 W	360,97 W
Short-circuit current (Isc)	11,49 A	11,55 A
Open-circuit voltage (Voc)	40,41 V	40,57 V
Maximum power current (Imp)	10,79 A	10,85 A
Maximum power voltage (Vmp)	33,10 V	33,27 V
Electrical characteristics with 10% rear side power gain		
Nominal power. Pmax	522,50 W	528,0 W
Short-circuit current (Isc)	15,61 A	15,72 A
Open-circuit voltage (Voc)	42,56 V	42,71 V
Maximum power current (Imp)	14,81 A	14,91 A
Maximum power voltage (Vmp)	35,29 V	35,41 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 120_NEXA Bif_475-480Wp_EN_JAN2024