

Monocrystalline Photovoltaic Module »



# MEPV 144 HALF-CUT

BLACK - STANDARD - BICOLOUR »  
450 / 460 Wp

## QUALITY »



**MBB technology**  
Better light absorption



**Reduced BOS**  
Cost effective product



**+5W**  
Positive power tolerance



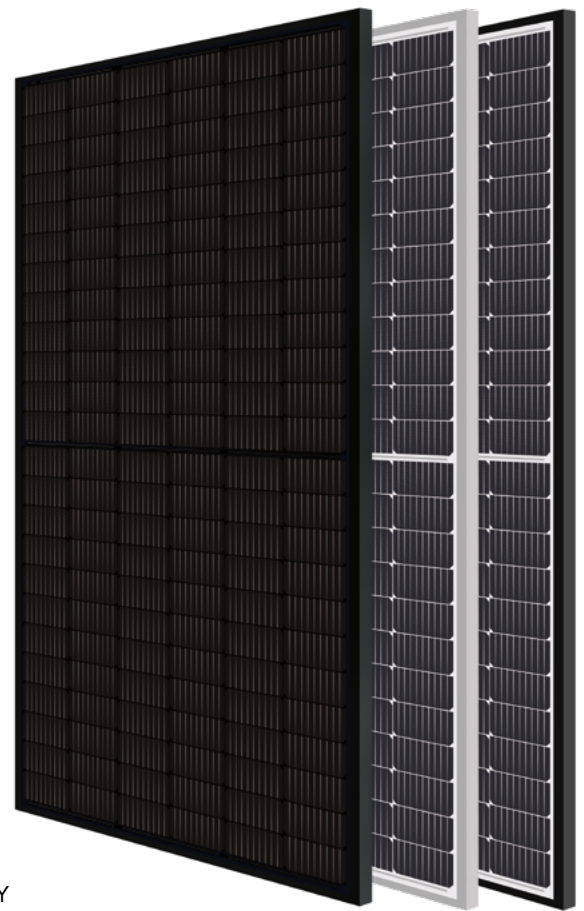
**Fire resistance**  
Maximum protection



**Avoid losses**  
Better shading tolerance



**Efficiency**  
Over 20% efficiency



1997 to 2022  
**25<sup>TH</sup>**  
ANNIVERSARY

\*\*\* EUROPEAN QUALITY

## WARRANTIES »

**15** YEARS PRODUCT WARRANTY

**25** YEARS PERFORMANCE WARRANTY  
Linear Warranty

PRODUCT WARRANTY  
for Premium Partners

**+5**  
YEARS

## CERTIFICATES »



## TECHNICAL FEATURES »

### Eurener\_MEPV 144\_HALF-CUT\_450-460Wp\_2022EN

#### FRAME

Black / Silver anodized aluminium

Robust and resistant to corrosion

#### CONNECTION BOX AND PROTECTIONS

Sealed, robust and wide for heat dissipation

IP67/IP68 according to IEC 60529

Diodes by-pass built-in (3/6)

Connector MC4 compatible

Application Class A. Safety Class II

Cables 1000 mm ( $\pm 20\%$ ) length and 4 mm<sup>2</sup> section

#### FRONTAL

3,2 mm thick tempered glass with high strength and ARC

Textured, extra-clear with low iron content

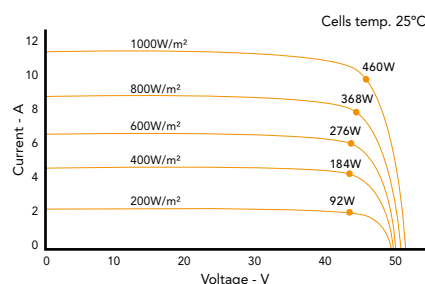
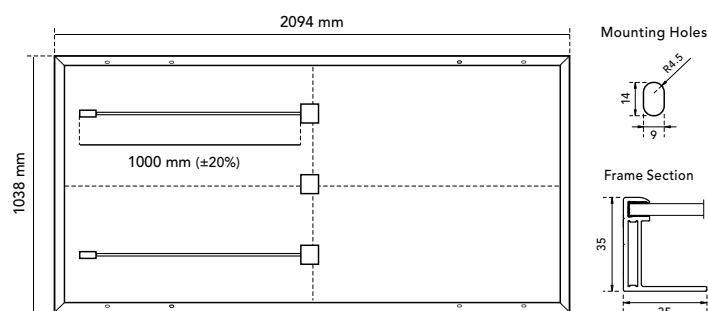
Frontal load (snow) 5.400 Pa | Back load (wind) 2.400 Pa

#### SOLAR CELLS

144 [2x(12x6)] cells monocrystalline silicon

#### WEIGHT, DIMENSIONS AND PACKAGING

25 Kg | 2094 x 1038 x 35 mm ( $\pm 1\%$ ) | Pack: 726 pcs-truck



## ELECTRIC DATA »

BLACK - STANDARD - BICOLOUR	MEPV 450	MEPV 460
STC: 1000 W/m <sup>2</sup> , module temperature 25°C, AM 1,5		
Nominal power. P <sub>mpp</sub>	450 Wp	460 Wp
Tolerance. P <sub>mpp</sub>	0 / +5 W	0 / +5 W
Area of the module	2,17 m <sup>2</sup>	
Module efficiency	20,72 %	21,19 %
I <sub>sc</sub>	11,50 A	11,66 A
V <sub>oc</sub>	49,98 V	50,38 V
I <sub>mpp</sub>	10,89 A	11,03 A
V <sub>mpp</sub>	41,36 V	41,76 V
NOCT: 800 W/m <sup>2</sup> , ambient temperature 20°C, AM 1,5		
Nominal power. P <sub>mpp</sub>	338,64 W	349,78 W
I <sub>sc</sub>	9,26 A	9,37 A
V <sub>oc</sub>	47,18 V	47,52 V
I <sub>mpp</sub>	8,71 A	8,88 A
V <sub>mpp</sub>	38,88 V	39,39 V
Operating parameters. Temperature coefficients		
Maximum voltage	1.000 - 1.500 V	
Maximum series fuse rating. I <sub>r</sub>	20 A	
α I <sub>sc</sub>	0,046 % / °C	
β V <sub>oc</sub>	- 0,276 % / °C	
γ P <sub>max</sub>	- 0,381 % / °C	
Temperature range	- 40°C ~ + 85°C	
NOCT	42 ± 2 °C	

NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m<sup>2</sup>, 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 144\_HALF-CUT\_450-460Wp\_EN\_MAR2022

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### 25 years 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.