

Monocrystalline Photovoltaic Module »



# MEPV 144 HALF-CUT

BLACK - STANDARD - BICOLOUR »  
400 / 410 / 415 / **420 Wp**

## QUALITY »



**MBB technology**  
Better light absorption



**Proven technology**  
More reliable



**+5W**  
Positive power tolerance



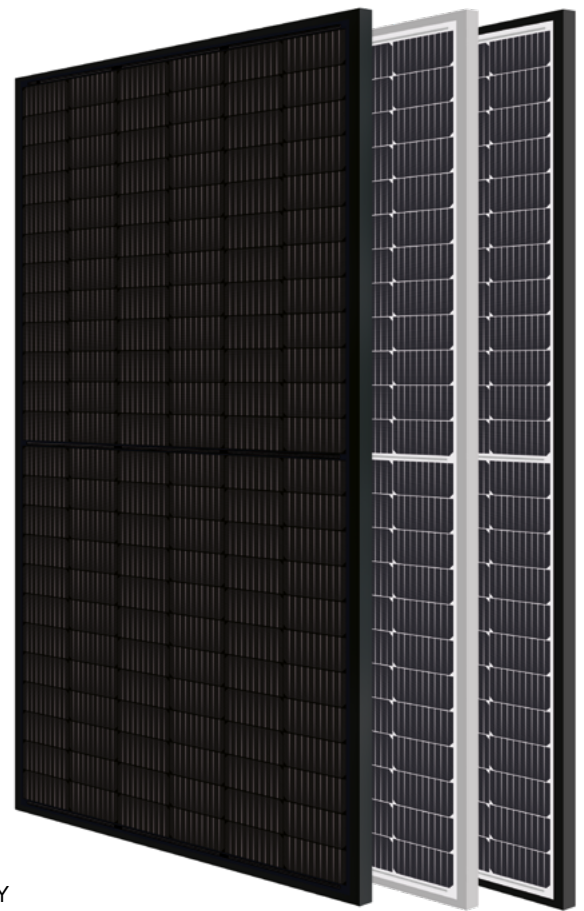
**Fire resistance**  
Maximum protection



**Avoid losses**  
Better shading tolerance



**Optimal performance**  
Power and 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\_400-420Wp\_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

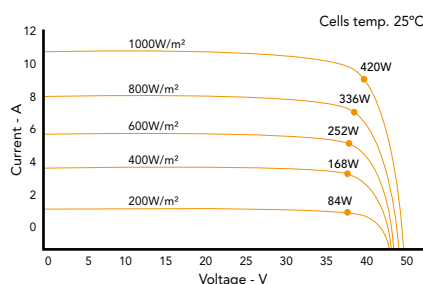
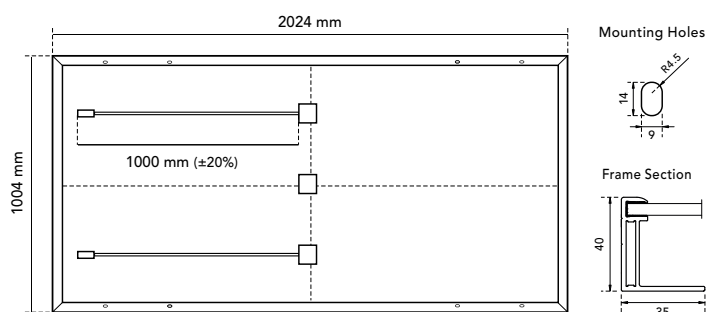
Frontal load (snow) 5.400 Pa | Back load (wind) 2.400 Pa

#### SOLAR CELLS

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

#### WEIGHT, DIMENSIONS AND PACKAGING

23 Kg | 2024 x 1004 x 40 mm ( $\pm 1\%$ ) | Pack: 638 pcs-truck



## ELECTRIC DATA »

BLACK - STANDARD - BICOLOUR	MEPV 400	MEPV 410	MEPV 415	MEPV 420
STC: 1000 W/m <sup>2</sup> , module temperature 25°C, AM 1,5				
Nominal power. P <sub>mpp</sub>	400 Wp	410 Wp	415 Wp	420 Wp
Tolerance. P <sub>mpp</sub>	0 / +5 W	0 / +5 W	0 / +5 W	0 / +5 W
Area of the module	2,03 m <sup>2</sup>			
Module efficiency	19,70 %	20,19 %	20,44 %	20,69 %
I <sub>sc</sub>	10,33 A	10,41 A	10,45 A	10,49 A
V <sub>oc</sub>	48,90 V	49,30 V	49,50 V	49,70 V
I <sub>mp</sub>	9,81 A	9,91 A	9,96 A	10,01 A
V <sub>mp</sub>	40,80 V	41,40 V	41,70 V	42,00 V
NOCT: 800 W/m <sup>2</sup> , ambient temperature 20°C, AM 1,5				
Nominal power. P <sub>mpp</sub>	302,00 W	309,24 W	312,39 W	315,15 W
I <sub>sc</sub>	8,33 A	8,39 A	8,43 A	8,45 A
V <sub>oc</sub>	46,00 V	46,40 V	46,60 V	46,90 V
I <sub>mp</sub>	7,89 A	7,97 A	8,01 A	8,06 A
V <sub>mp</sub>	38,20 V	38,80 V	39,00 V	39,10 V
Operating parameters. Temperature coefficients				
Maximum voltage	1000 - 1500 V			
Maximum series fuse rating. I <sub>r</sub>	20 A			
α I <sub>sc</sub>	0,05 % / °C			
β V <sub>oc</sub>	- 0,29 % / °C			
γ P <sub>max</sub>	- 0,37 % / °C			
Temperature range	- 40°C ~ + 85 °C			
NOCT	41 ± 3 °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\_400-420Wp\_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.