

ALL YOU
NEED
IN ONE
MODULE

N – TYPE
IBC
CELLS

MEPV ULTRA
PREMIUM

400W - 440W

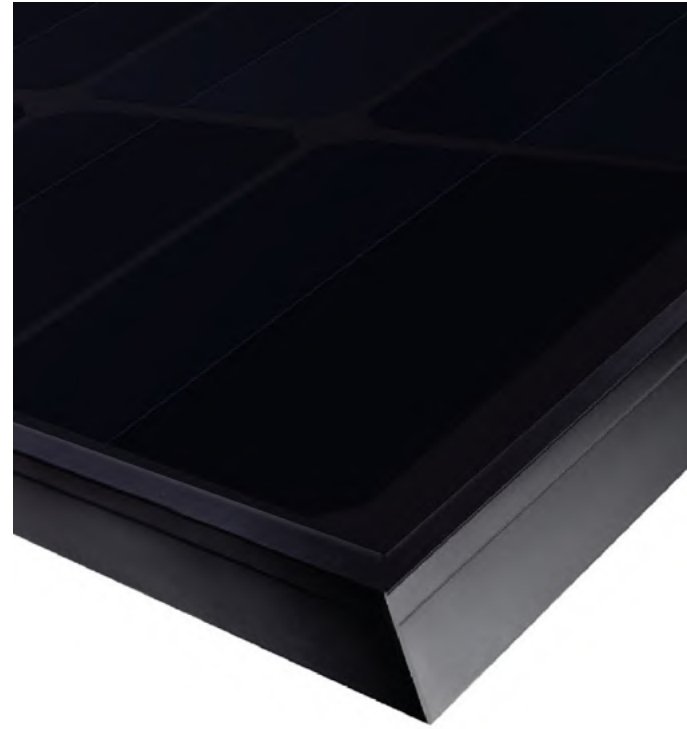
↘ *A new era for the Ultra Series*

eurener
energía solar

ALL YOU NEED IN ONE MODULE

As specialists in modules for residential installations, Eurener welcomes the new Ultra Premium module to its family.

With our **new Ultras** we have managed to improve the performance of this series of modules with avant-garde technology and aesthetics to meet the needs and demands of the most demanding market.



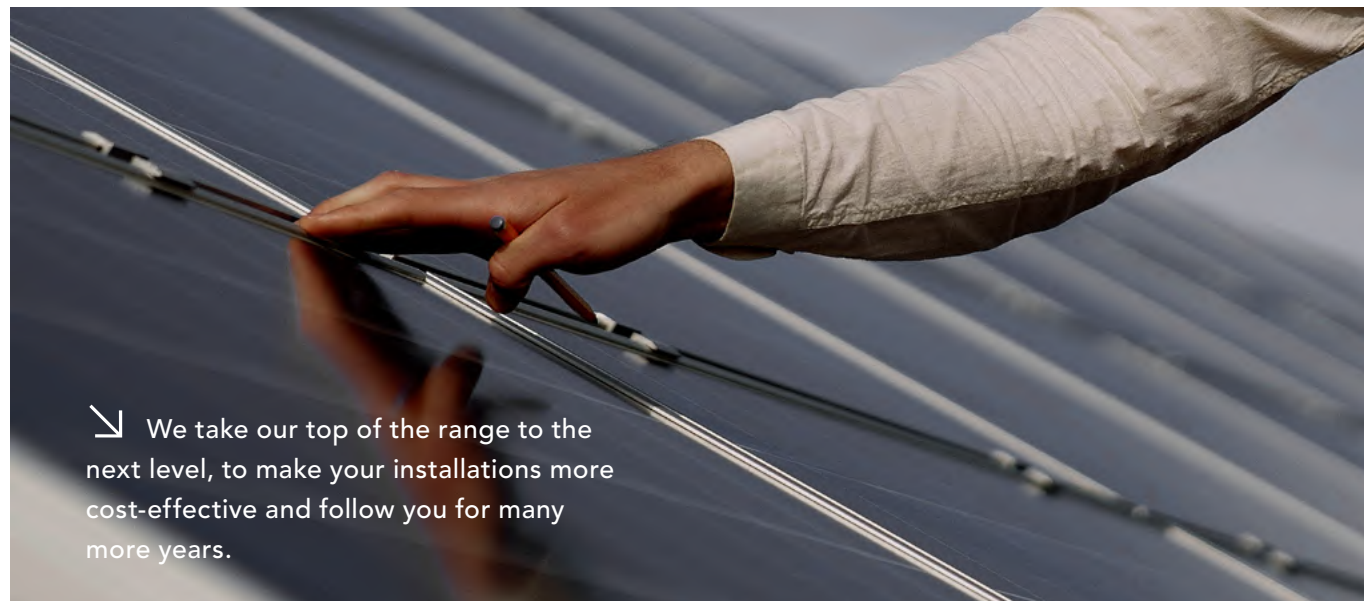
We have introduced the **N-type back contact cells (IBC)**. Thanks to the improvements in their technology, we have increased the warranties.



We have increased the product warranty to **20 years**.

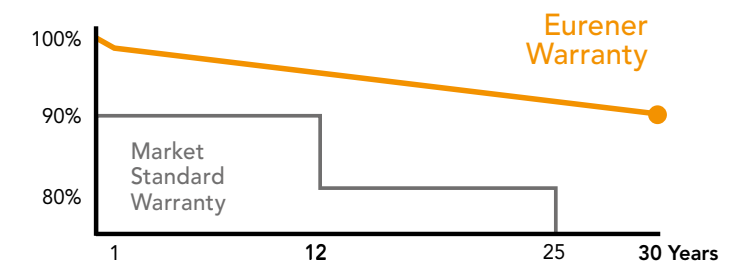


The performance warranty has been increased to **30 years at 90%**.



We take our top of the range to the next level, to make your installations more cost-effective and follow you for many more years.

WARRANTIES



20 years product warranty, with a **5-year extension for premium partners**.

Degradation less than **1% in the first year**.

93% at 25 years.

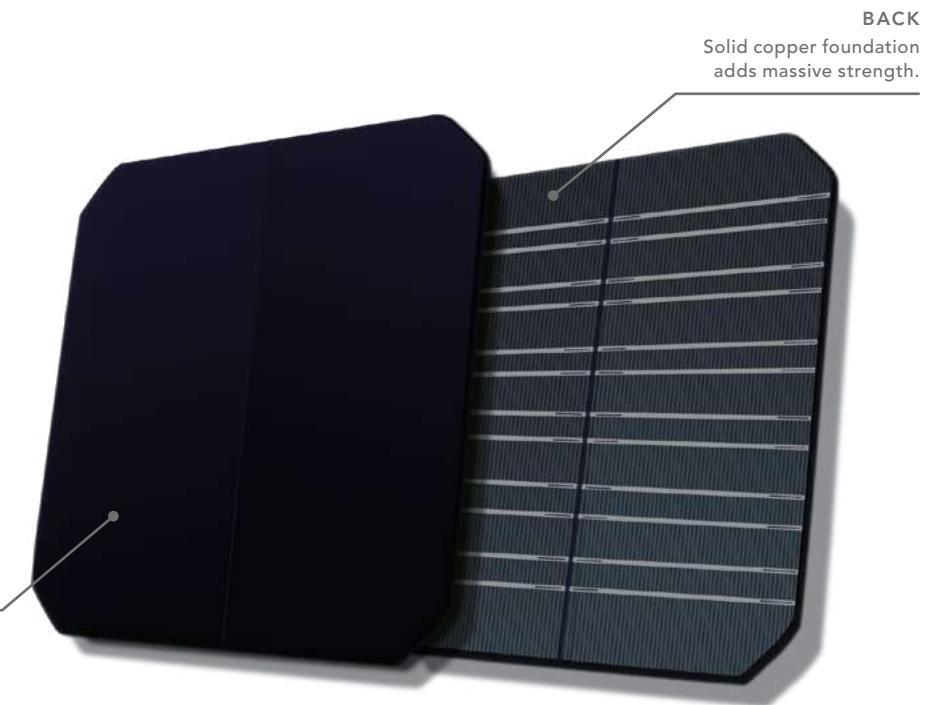
We maintain the 30-year performance warranty by increasing the final power output.

Linear degradation of **0.25% per year**.

Up to 90% at the 30th year.

N-TYPE IBC CELLS

FRONT
Ultra pure silicon delivers optimal power conversion.



BACK
Solid copper foundation adds massive strength.

We have included for the first time the **IBC (Interdigitated back contact) technology**. Removing the busbars from the front side reduces the effect of shadows on the solar cells, resulting in a **higher efficiency of up to 22.3%**.

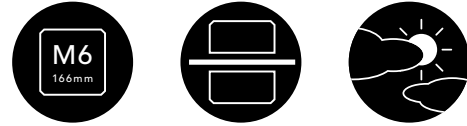
N-type cells, due to their composition, **offer higher performance and efficiency than P-type** cells and reduce the LID and LeTID* effect.

LID * Light Induced Degradation.

LeTID * Light and Elevated Temperature Induced Degradation.



HALF-CUT TECHNOLOGY



↘ We keep the Half-Cut technology which reduces internal resistances to increase the power output.

Two independent sections ensure production even on the cloudiest days.

↘ In 120 or 132 half-cut N-Type IBC cells.

IMPROVED TEMPERATURE COEFFICIENTS

↘ Better temperature coefficient (-0,29%/°C).

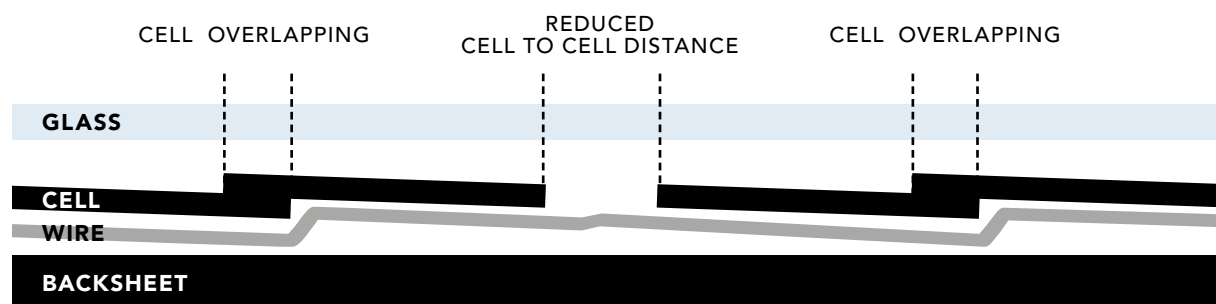
↘ Power loss, mainly due to voltage drop, is less affected when temperatures rise. This allows higher power output in difficult conditions for the silicon.



CELL OVERLAPPING

↘ The new Ultra Premium uses an innovative technique of two slightly overlapped N-type IBC half-cut cells with a full-cell appearance that also reduces internal resistances.

↘ The reduction and elimination of gaps between cells helps to optimise the module size and results in **an efficiency of more than 22%**.



PID FREE

↘ N-Type cells also have a higher resistance to PID (Potential Induced Degradation).

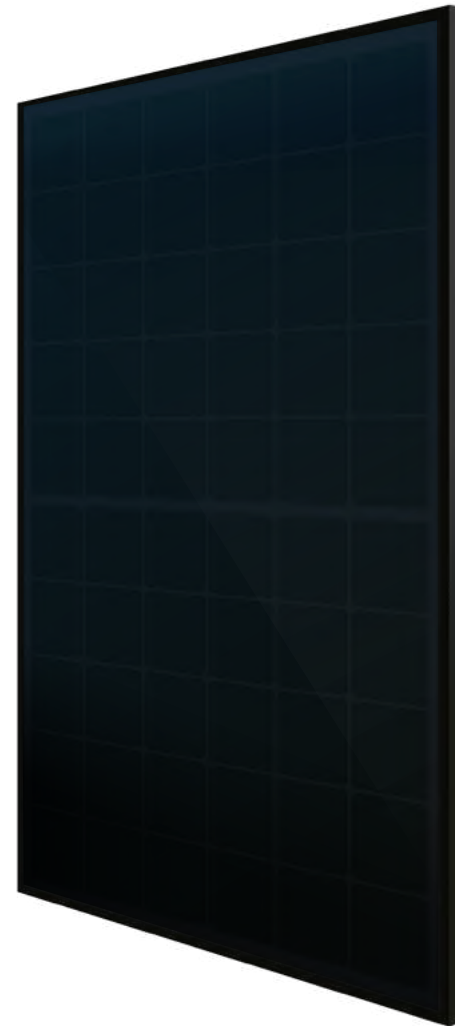
↘ In N-type modules, it is the quality of the cell itself that can cause PID losses, and by not having Boron, much of the problem is eliminated.

↘ These two advantages, non-LID and PID free, can be summed up as less degradation in the first year and in the following years. In other words, **more energy over the lifetime of the installation.**

Monocrystalline Photovoltaic Module »

MEPV 120 ULTRA PREMIUM

BLACK » 400Wp



QUALITY »



IBC technology
Interdigitated back contact



N-type cell
120 Half-Cut IBC



Staubli MC4
Top quality components



Premium integration
Total black



Long durability
90% at the 30th year



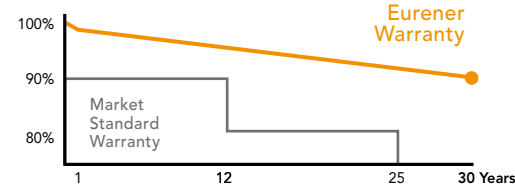
Efficiency
Over 22% efficiency



WARRANTIES »

20 YEARS PRODUCT WARRANTY
+5 years for Premium Partners

30 YEARS PERFORMANCE WARRANTY
Linear Warranty



CERTIFICATES »



TECHNICAL FEATURES » Eurener_MEPV 120_ULTRA PREMIUM_400Wp_2022EN

FRAME

Black anodized aluminium
Robust and resistant to corrosion

CONNECTION BOX AND PROTECTIONS

Sealed, robust and wide for heat dissipation
IP68 according to IEC 60529
Diodes by-pass built-in (3/6)
Connector MC4
Application Class A. Safety Class II
Cables 1000 mm (±20%) length and 4 mm² section

FRONTAL

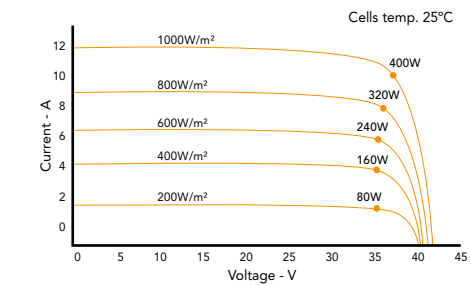
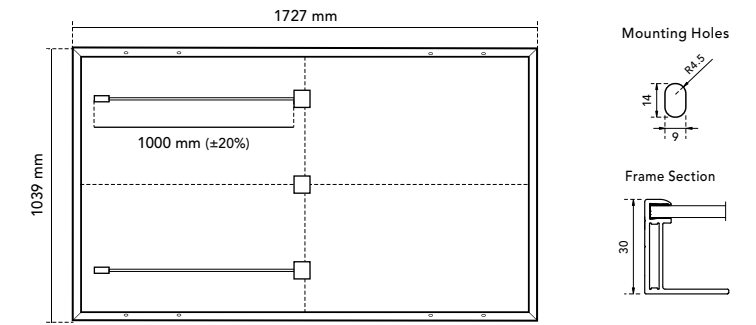
3,2 mm thick tempered glass with high strength and ARC
Textured, extra-clear with low iron content
Frontal load (snow) 5400 Pa | Back load (wind) 2400 Pa

SOLAR CELLS

120 (6x20) cells monocrystalline silicon

WEIGHT, DIMENSIONS AND PACKAGING

20 Kg | 1727 x 1039 x 30 mm (±1%) | Pack: 949 pcs-truck



ELECTRIC DATA »

BLACK	MEPV 400
STC: 1000 W/m ² , module temperature 25°C, AM 1,5	
Nominal power. Pmax	400 Wp
Max. power tolerance. Pmax	0 / +5 W
Area of the module	1,79 m ²
Module efficiency	22,30 %
Isc	12,05 A
Voc	42,10 V
Imp	11,09 A
Vmp	36,10 V
NOCT: 800 W/m ² , ambient temperature 20°C, AM 1,5	
Nominal power. Pmax	302 W
Isc	9,65 A
Voc	40,30 V
Imp	9,02 A
Vmp	33,50 V
Operating parameters. Temperature coefficients	
Maximum voltage	1500 V
Maximum series fuse rating. Ir	20 A
α Isc	0,046 % / °C
β Voc	- 0,246 % / °C
γ Pmax	- 0,290 % / °C
Temperature range	- 40°C ~ + 85 °C
NOCT	43 ± 2 °C

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_ULTRA PREMIUM_400Wp_EN_JUN2022



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

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.

Monocrystalline Photovoltaic Module »

MEPV 132 ULTRA PREMIUM

BLACK » 440Wp



QUALITY »



IBC technology
Interdigitated back contact



N-type cell
132 Half-Cut IBC



Staubli MC4
Top quality components



Premium integration
Total black



Long durability
90% at the 30th year



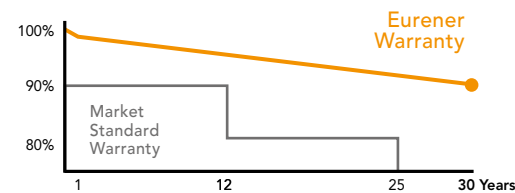
Efficiency
Over 22% efficiency



WARRANTIES »

20 YEARS PRODUCT WARRANTY
+5 years for Premium Partners

30 YEARS PERFORMANCE WARRANTY
Linear Warranty



CERTIFICATES »



TECHNICAL FEATURES »

Eurener_MEPV 132_ULTRA PREMIUM_440Wp_2022EN

FRAME

Black anodized aluminium
Robust and resistant to corrosion

CONNECTION BOX AND PROTECTIONS

Sealed, robust and wide for heat dissipation
IP68 according to IEC 60529
Diodes by-pass built-in (3/6)
Connector MC4
Application Class A. Safety Class II
Cables 1000 mm (±20%) length and 4 mm² section

FRONTAL

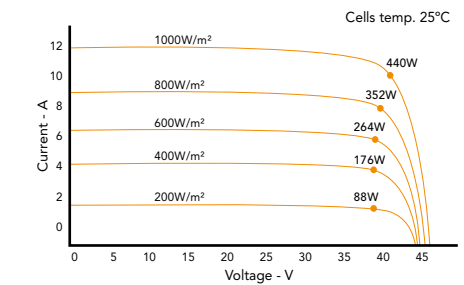
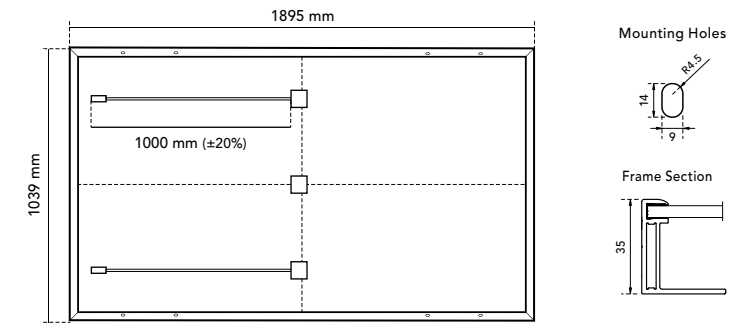
3,2 mm thick tempered glass with high strength and ARC
Textured, extra-clear with low iron content
Frontal load (snow) 5400 Pa | Back load (wind) 2400 Pa

SOLAR CELLS

132 (22x6) cells monocrystalline silicon

WEIGHT, DIMENSIONS AND PACKAGING

21 Kg | 1895 x 1039 x 35 mm (±1%) | Pack: 768 pcs-truck



ELECTRIC DATA »

BLACK	MEPV 440
STC: 1000 W/m², module temperature 25°C, AM 1,5	
Nominal power. Pmax	440 Wp
Max. power tolerance. Pmax	0 / +5 W
Area of the module	1,96 m ²
Module efficiency	22,30 %
Isc	12,06 A
Voc	46,30 V
Imp	11,12 A
Vmp	39,60 V
NOCT: 800 W/m², ambient temperature 20°C, AM 1,5	
Nominal power. Pmax	332 W
Isc	9,73 A
Voc	44,40 V
Imp	8,89 A
Vmp	37,00 V
Operating parameters. Temperature coefficients	
Maximum voltage	1500 V
Maximum series fuse rating. Ir	20 A
α Isc	0,046 % / °C
β Voc	- 0,246 % / °C
γ Pmax	- 0,290 % / °C
Temperature range	- 40°C ~ + 85 °C
NOCT	43 ± 2 °C

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 132_ULTRA PREMIUM_440Wp_EN_JUN2022



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

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.



eurener
energía solar

www.eurenergroupp.com
More than energy!

FUTURE VISION

At Eurener, we are working towards a 100% renewable and sustainable planet. This commitment means that our main purpose has been to supply sustainable and long-lasting photovoltaic modules that will allow future generations to continue generating clean energy to take care of our planet.

contact@eurenerworld.com
+34 960 045 515

Calle Colón, 1-23
46004, Valencia. Spain