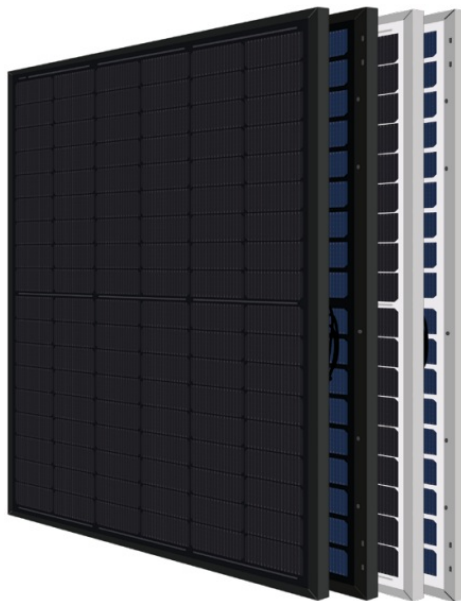


eurenner 420 PV Module User Manual

[Home](#) » [eurenner](#) » eurenner 420 PV Module User Manual 

eurenner 420 PV Module User Manual



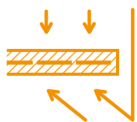
N-type cell

Higher resistance to **LID** and **LeTID**.



TOP Con

Technology to increase cell efficiency.



Bifacial cell

Improved energy yield.



Easy to handle

Comfortable installation thanks to an optimized area size.



Better temperature coefficient

Minimized thermal losses, improved efficiency.



Sustainable product

High percentage of recyclable materials.

25 Years

Product Warranty

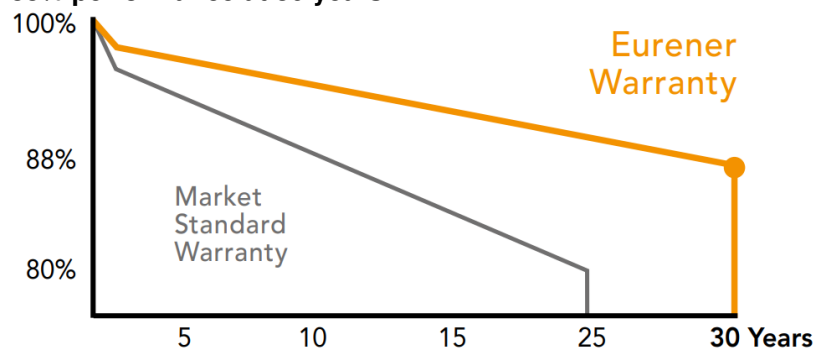
+5 years for Premium Partners

30 Years

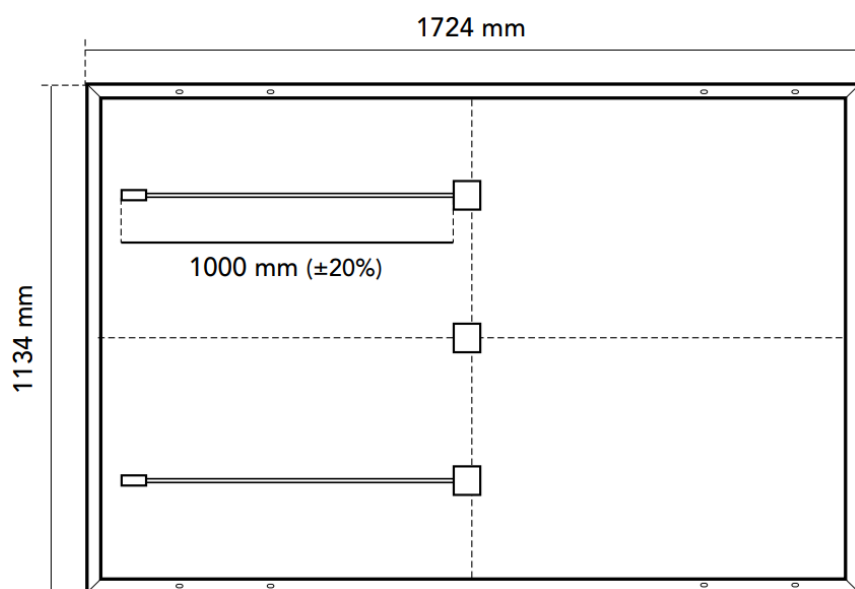
Performance Warranty

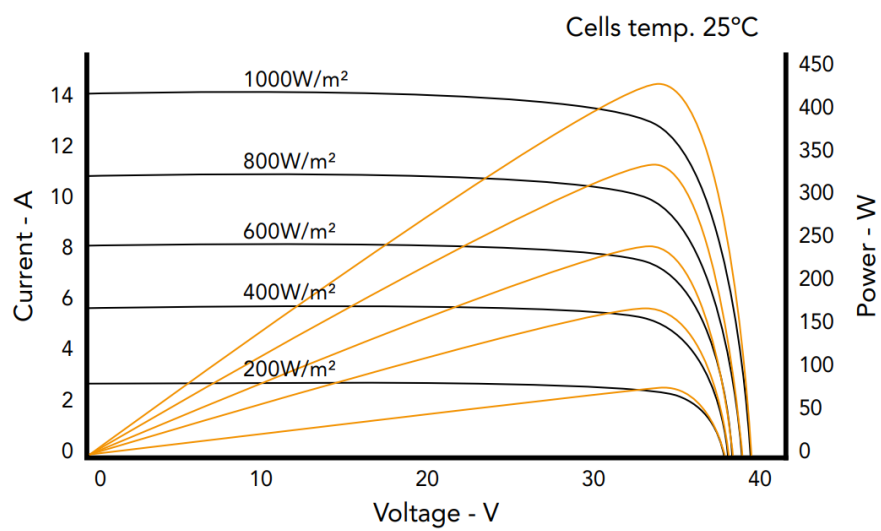
Linear Warranty

88% performance at 30 years



Mechanical Specification	
Solar cells	108 (6 x 18), N-Type bifacial mono crystalline 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 ($\pm 20\%$) length and 4 mm ² section
Dimension	1724 x 1134 x 30 mm ($\pm 1\%$)
Area	1,96 m ²
Weight and packaging	23,4 kg, 962 pcs-truck
Temperature Coefficients	
Temperature coefficient of I _{sc} (a)	0,045 %/°C
Temperature coefficient of V _{oc} (b)	-0,275 %/°C
Temperature coefficient of P _{max} (g)	-0,29 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature (NOCT)	45 $\pm$ 2 °C





Black – Standard	MEPV 420	MEPV 425	MEPV 430	MEPV 435
STC: 1000 W/m², module temperature 25°C, AM 1,5				
Nominal power. P _{max}	420 Wp	425 Wp	430 Wp	435 Wp
Module efficiency	21,49 %	21,75 %	22,01 %	22,26 %
Short-circuit current (I _{sc})	14,08 A	14,16 A	14,26 A	14,30 A
Open-circuit voltage (V _{oc})	38,09 V	38,28 V	38,42 V	38,70 V
Maximum power current (I _{mp})	13,34 A	13,42 A	13,52 A	13,56 A
Maximum power voltage (V _{mp})	31,49 V	31,68 V	31,82 V	32,09 V
NOCT: 800 W/m², ambient temperature 20°C, AM 1,5				
Nominal power. P _{max}	321,64 W	325,38 W	329,33 W	333,12 W
Short-circuit current (I _{sc})	11,34 A	11,41 A	11,47 A	11,54 A
Open-circuit voltage (V _{oc})	36,52 V	36,70 V	36,88 V	37,06 V
Maximum power current (I _{mp})	10,75 A	10,81 A	10,88 A	10,94 A
Maximum power voltage (V _{mp})	29,92 V	30,10 V	30,27 V	30,45 V
Electrical characteristics with 10% rear side power gain				
Nominal power. P _{max}	462,00 W	467,50 W	473,00 W	478,50 W
Short-circuit current (I _{sc})	15,43 A	15,52 A	15,63 A	15,67 A
Open-circuit voltage (V _{oc})	38,09 V	38,31 V	38,49 V	38,85 V
Maximum power current (I _{mp})	14,63 A	14,72 A	14,82 A	14,86 A
Maximum power voltage (V _{mp})	31,58 V	31,76 V	31,91 V	32,21 V
Operating parameters				
Maximum voltage	1000 – 1500 V			
Maximum series fuse rating. I _r	25 A			
Power output tolerance	0 – +3%			
V _{oc} and I _{sc} 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.

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.

Symbols



IEC 61215



IEC 61730

eurener.com

contact@eurenerworld.com

+34 960 045 515

Calle Colón, 1-23

46004, Valencia. Spain



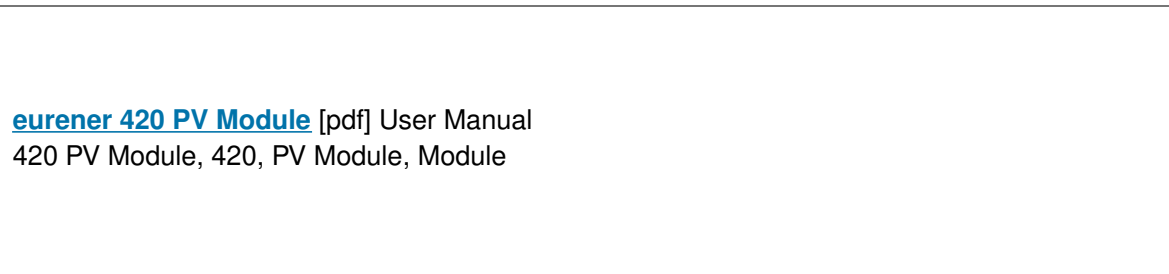
Contents

[1 Documents / Resources](#)

[1.1 References](#)

[2 Related Posts](#)

Documents / Resources



This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.