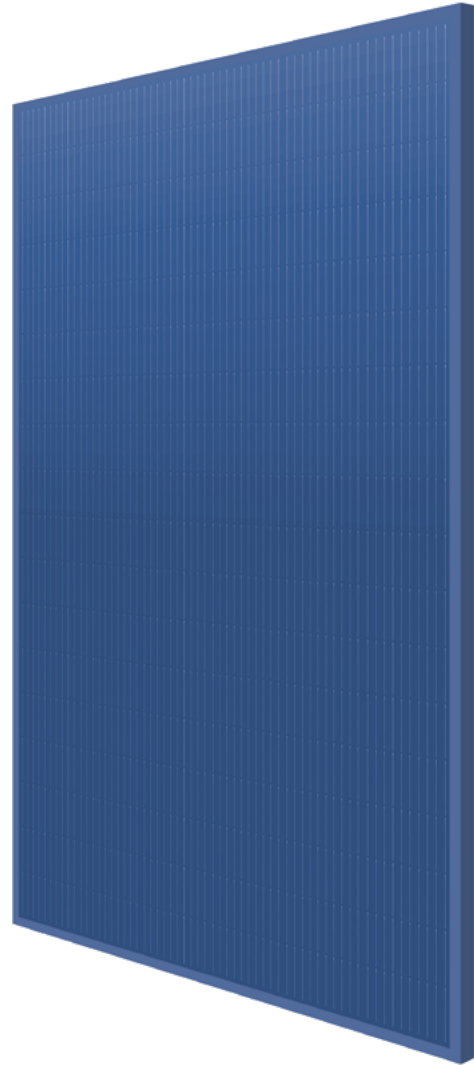


## Sapphire TOPCon N-type

FRONT SIDE

# 420W

› Double Glass Bifacial



### Module efficiency

Module efficiency up to 20.02 %



### Colour RAL

**5023 (frame) 5009 (glass)**

Perfect integration on demanding BIPV projects



### PID resistance

Certified according to IEC TS 62804 standards



### Bifacial cell

Bifaciality factor:  $80 \pm 5$  %



### Sustainable product

High percentage of recyclable materials



### Easy to handle

Comfortable installation thanks to an optimized area size

# 25

Years

**Product Warranty**

+5 years for Premium Partners

# 30

Years

**Performance Warranty**

Linear Warranty

**2%** First year degradation

**0.55%** Annual degradation

**82.05%** Power in year 30

### Light up your world with Eurener

Eurener's extensive portfolio of certifications and awards is testament to our unwavering commitment to our partners and our deep sense of social and ethical responsibility.



Spanish Quality Worldwide



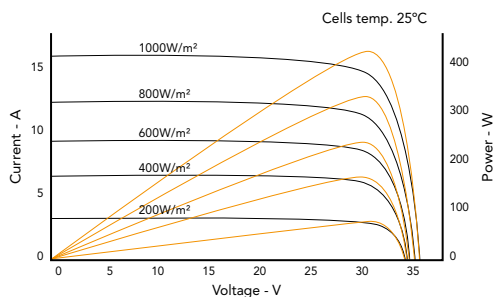
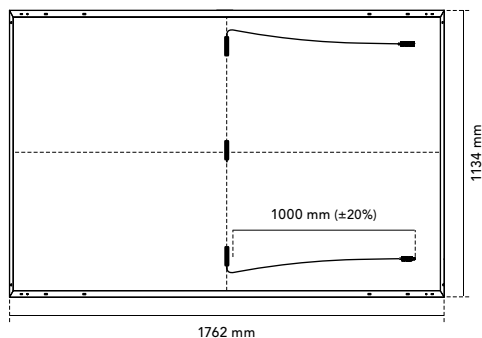
Awarded as TOP Brand PV



EcoVadis Platinum Medal for three consecutive years



# Eurener MEPV — SAPPHIRE DG Bif 420W



Mechanical specification	
Solar cells	N-Type bifacial monocrystalline silicon cells
Front Glass	2 mm anti-reflective surface tempered solar glass
Back Glass	2 mm tempered uncolored solar glass
Frame	Sapphire anodized aluminium
Junction Box	IP68, 3 by-pass diodes
Connector	Original MC4-Evo 2
Cable	1000 mm (±20%) length and 4 mm² section
Dimension	1762 x 1134 x 30 mm (±1%)
Area	2.00 m²
Weight	25.5 kg

Temperature coefficients	
Temperature coefficient of Isc ( $\alpha$ )	0.05 %/°C
Temperature coefficient of Voc ( $\beta$ )	-0.28 %/°C
Temperature coefficient of Pmax ( $\gamma$ )	-0.29 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature (NOCT)	45 ± 2 °C

## MEPV 420

Electrical characteristics	STC	NOCT
Nominal power. Pmax	420 Wp	311 Wp
Short-circuit current (Isc)	15.31 A	12.09 A
Open-circuit voltage (Voc)	35.22 V	33.27 V
Maximum power current (Imp)	14.72 A	11.63 A
Maximum power voltage (Vmp)	28.53 V	26.72 V
Module efficiency	21.02 %	

Electrical characteristics	Bifacial gain 10%
Nominal power. Pmax	462 Wp
Short-circuit current (Isc)	16.84 A
Open-circuit voltage (Voc)	35.22 V
Maximum power current (Imp)	16.19 A
Maximum power voltage (Vmp)	28.53 V

\* STC: 1000 W/m², module temperature 25°C, AM 1.5

\* NOCT: 800 W/m², ambient temperature 20°C, AM 1.5

Operating parameters	
Maximum voltage	1500 V
Maximum series fuse rating. Ir	25 A
Power output tolerance	0 - +3 %
Voc and Isc tolerance	± 3 %
Fire rating	BROOF (t4) (EN 13501-5) Class A or C (UL 790)
Protection class	Class II (IEC 61140)
Mechanical loads	Front load 5400 Pa, Back load 2400 Pa

Corporate and product certificates	
ECOVADIS rating - Platinum Medal (TOP 1%)	
Solar Industry Forced Labor Prevention Pledge by SEIA	
ISO9001:2015 - Quality Management Systems	
ISO14001:2015 - Environmental Management System	
WEEE compliance in Germany	
PV CYCLE Italy	
IEC 61215 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval	
IEC 61730 - Photovoltaic (PV) module safety qualification	
IEC 61701 - Photovoltaic (PV) modules - Salt mist corrosion testing	
IEC 62716 - Photovoltaic (PV) modules - Ammonia corrosion testing	
IEC TS 62804 - Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation	
Hail resistance HW3/RG3	
Certificate of Factory Production Control (UK) - MCS	
Fire reaction class: 1 - LAPI	
Swissolar Quality Certificate	



NOTE: All information contained in this data sheet is provided for general information purposes only. Product specifications may be subject to technical modifications. Reception, installation and use shall comply with the applicable Installation Manual, General Conditions of Sale and Warranty Terms and Conditions. The latest versions of all technical documentation are available at [www.eurener.com](http://www.eurener.com).

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46004, Valencia. Spain

## European experts in residential modules

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.