

Emerald TOPCon N-type

FRONT SIDE

420W

› Double Glass Bifacial



Module efficiency

Module efficiency up to 21.02 %



Colour RAL 6033

Perfect integration on demanding BIPV projects



PID resistance

Certified according to IEC TS 62804 standards



Bifacial cell

Bifaciality factor: $80 \pm 5 \%$



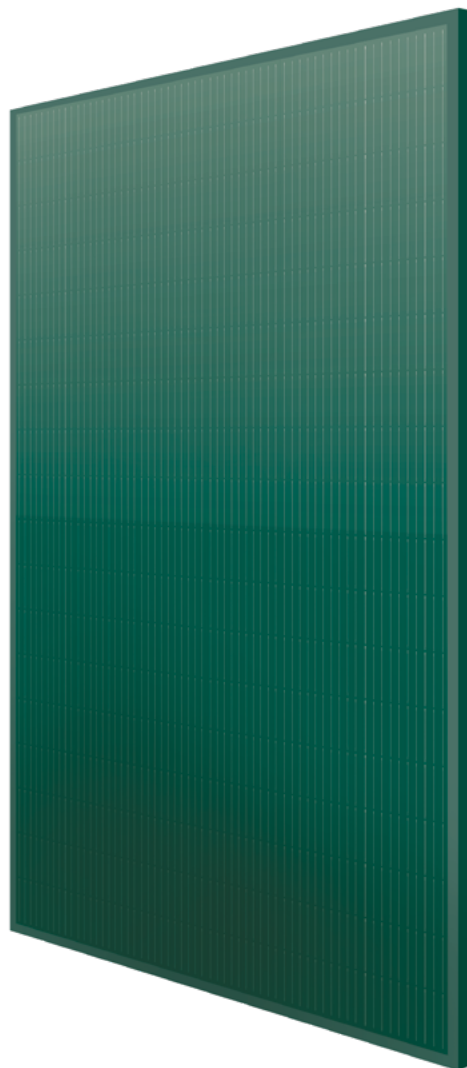
Sustainable product

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



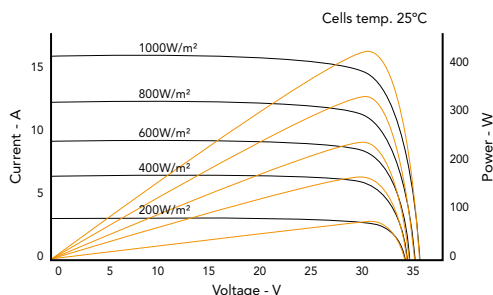
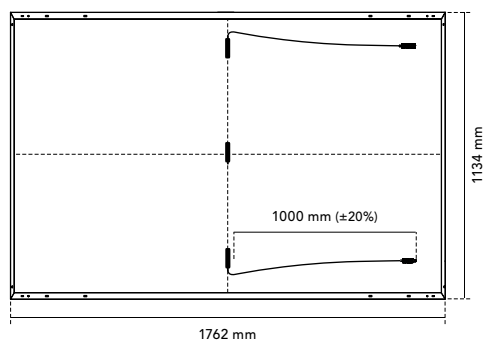
Awarded as TOP Brand PV
in -FR-SW-BE-UK-



EcoVadis
Platinum Medal



Eurener MEPV — EMERALD 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	Emerald 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 (α)	0.05 %/°C
Temperature coefficient of Voc (β)	-0.28 %/°C
Temperature coefficient of Pmax (γ)	-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	312 Wp
Short-circuit current (Isc)	15.45 A	12.20 A
Open-circuit voltage (Voc)	35.18 V	33.22 V
Maximum power current (Imp)	15.22 A	12.09 A
Maximum power voltage (Vmp)	27.61 V	25.84 V
Module efficiency	21.02 %	
Electrical characteristics	Bifacial gain 10%	
Nominal power. Pmax	462 Wp	
Short-circuit current (Isc)	17.00 A	
Open-circuit voltage (Voc)	35.18 V	
Maximum power current (Imp)	16.73 A	
Maximum power voltage (Vmp)	27.61 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	Class 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



NOTE: Read the safety and installation manual before using the product. This data sheet is not legally binding, Eurener reserves the right of final interpretation. Eurener reserves the right to change the product characteristics and/or specifications without prior notice. The latest versions of all documents can always be found on our website at www.eurener.com.

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more than
energy



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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.