



TRANSIZIONE  
**5.0**



## Nexa TOPCon N-type

FRONT SIDE

# 480 - 500W

› Double Glass Bifacial

**+23.1%**

### Module efficiency

Module efficiency up to 23.10 %

**+25.1%**

### Cell efficiency

Cell efficiency up to 25.16%



### Different designs

Black - Silver



### Bifacial cell

Bifaciality factor: 80 ± 5 %



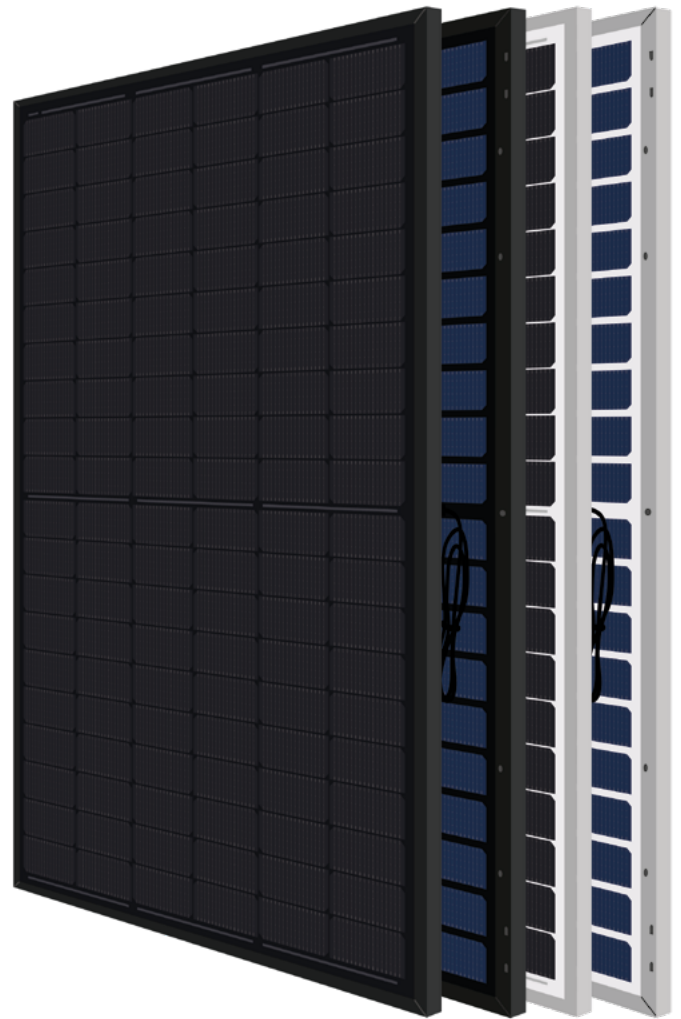
### PFAS free

Product free from perfluoroalkyl and polyfluoroalkyl substances



### Sustainable product

High percentage of recyclable materials



# 30

Years

Product Warranty

# 30

Years

Performance Warranty

Linear Warranty

**1%** First year degradation

**0.38%** Annual degradation

**88%** 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



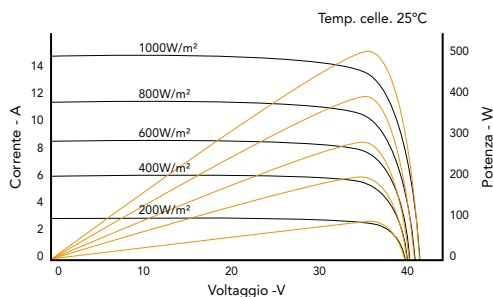
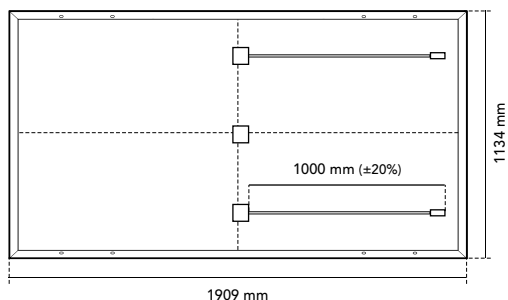
Awarded as TOP Brand PV  
in -FR-SW-BE-UK-



Ecovadis  
Platinum Medal



# ESM480-60HM10 – ESM490-60HM10 & ESM500-60HM10 — NEXA Double Glass Bifacial



## Mechanical Specification

Solar cells	60 x 2 M10, N-Type bifacial monocrystalline silicon cells
Front Glass	2mm anti-reflective surface tempered solar glass
Back Glass	2mm tempered solar glass
Frame	Black/silver anodized aluminium
Junction Box	IP68, 3 by-pass diodes
Connector	Original MC4-Evo 2
Cable	1000 mm (±20%) length and 4 mm² section
Dimension	1909 x 1134 x 30 mm (±1%)
Area	2.16 m²
Weight	27 kg
Packaging	864 pcs/truck

## Temperature Coefficients

Temperature coefficient of Isc ( $\alpha$ )	0.045 %/°C
Temperature coefficient of Voc ( $\beta$ )	-0.275 %/°C
Temperature coefficient of Pmax ( $\gamma$ )	-0.29 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature (NOCT)	45 ± 2 °C

Electrical Characteristics	MEPV 480		MEPV 490		MEPV 500	
	STC	NOCT	STC	NOCT	STC	NOCT
Nominal power. Pmax	480 Wp	361 Wp	490 Wp	369 Wp	500 Wp	376 Wp
Short-circuit current (Isc)	14.34 A	11.55 A	14.44 A	11.69 A	14.52 A	11.81 A
Open-circuit voltage (Voc)	42.63 V	40.57 V	42.95 V	41.02 V	43.25 V	41.43 V
Maximum power current (Imp)	13.60 A	10.85 A	13.78 A	11.01 A	13.94 A	11.13 A
Maximum power voltage (Vmp)	35.31 V	33.27 V	35.61 V	33.48 V	35.88 V	33.80 V
Module efficiency	22.18 %		22.63 %		23.10 %	
Cell efficiency	24.15 %		24.65 %		25.16 %	
Electrical Characteristics	Bifacial gain 10%					
Nominal power. Pmax	528 Wp		539 Wp		550 Wp	
Short-circuit current (Isc)	15.72 A		15.93 A		16.02 A	
Open-circuit voltage (Voc)	42.71 V		43.03 V		43.31 V	
Maximum power current (Imp)	14.91 A		15.11 A		15.30 A	
Maximum power voltage (Vmp)	35.42 V		35.68 V		35.97 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 reaction - CSI	Class 1 (UNI 9177)
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



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](http://www.eurener.com).

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