



TRANSIZIONE  
5.0



## Nexa Plus TOPCon N-type

# > 580W

+22.4%

### Module efficiency

Module efficiency up to 22.47 %

+24.3%

### Cell efficiency

Cell efficiency up to 24.32 %



### Different designs

Black - Silver



### PID resistance

Certified according to IEC TS 62804 standards



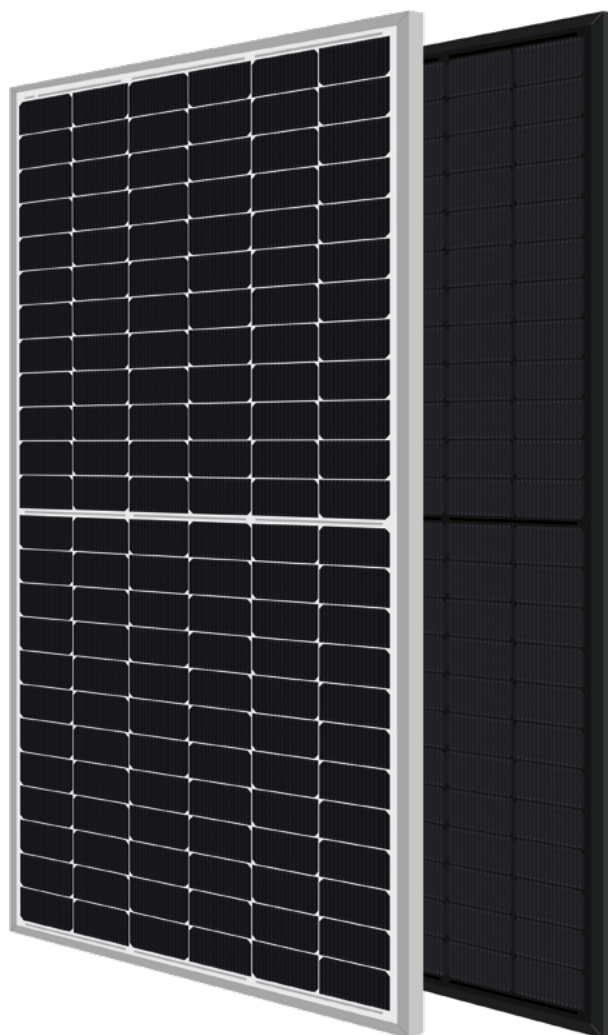
### Salt mist resistance

Certified according to IEC 61701 standards



### Increased PV surface

Higher power output for commercial and ground projects



# 25

  
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



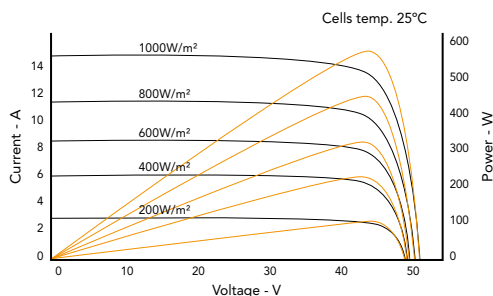
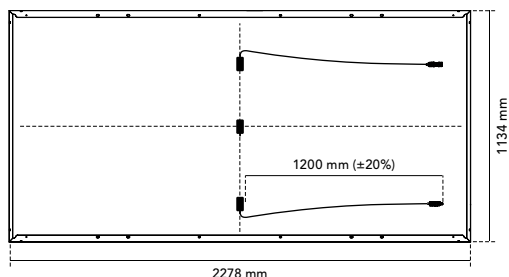
Awarded as TOP Brand PV  
in -FR-SW-BE-UK-



EcoVadis  
Platinum Medal



## ESM580-72HM10 — NEXA Plus



### Mechanical Specification

|              |                                                           |
|--------------|-----------------------------------------------------------|
| Solar cells  | 72 x 2 M10, N-Type bifacial monocrystalline silicon cells |
| Front Glass  | 3.2 mm thick tempered glass with high strength and ARC    |
| Frame        | Silver/black anodized aluminium                           |
| Junction Box | IP68, 3 by-pass diodes                                    |
| Connector    | Original MC4-Evo 2 / MC4 compatible                       |
| Cable        | 1200 mm (±20%) length and 4 mm² section                   |
| Dimension    | 2278 x 1134 x 30 mm (±1%)                                 |
| Area         | 2.58 m²                                                   |
| Weight       | 28 kg                                                     |
| Packaging    | 720 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       |

580

### Electrical Characteristics

|                             |         |
|-----------------------------|---------|
| Nominal power. Pmax         | 580 Wp  |
| Short-circuit current (Isc) | 14.49 A |
| Open-circuit voltage (Voc)  | 51.07 V |
| Maximum power current (Imp) | 13.70 A |
| Maximum power voltage (Vmp) | 42.35 V |
| Module efficiency           | 22.47 % |
| Cell efficiency             | 24.32 % |

### Electrical Characteristics

|                             |         |
|-----------------------------|---------|
| Nominal power. Pmax         | 436 Wp  |
| Short-circuit current (Isc) | 11.69 A |
| Open-circuit voltage (Voc)  | 48.38 V |
| Maximum power current (Imp) | 10.99 A |
| Maximum power voltage (Vmp) | 39.70 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,<br>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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more than  
energy

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