

**AESOLAR**

It's time to save the world.

# COMPANY PROFILE



# ABOUT US

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AESOLAR, as a BNEF Tier 1 German manufacturer of high-quality PV modules, has proven itself to be a dynamic and progressive enterprise. Since our inception in 2003, we have positioned ourselves to be one of the leaders in the private sector.

AESOLAR is headquartered in Augsburg, Germany, with satellite offices in the US, Brazil and Georgia. Our production lines are located in China and Turkey with an annual capacity of 2GW.

We have a global distribution network in more than 100 countries, and our products are available in more than 100 countries and regions around the world as well.

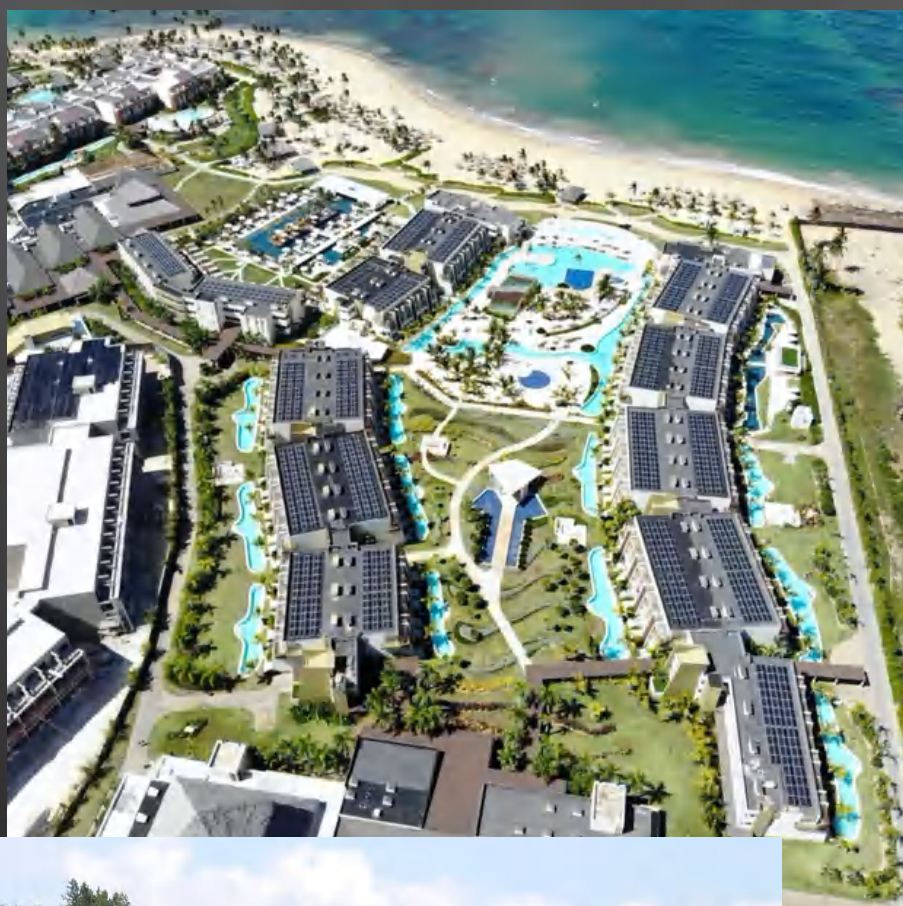
Unlike most sales-oriented companies in the industry, AESOLAR focuses more on listening to the needs of its customers and researching and developing accordingly. Making clean energy available to our customers all over the world is our starting point and our goal!

*Alexander Maier*

**Alexander Maier**  
CEO & Founder







# OUR MISSION

“

TO PROMOTE AN ECO-FRIENDLY, RISK-FREE, CLEAN AND SAFE ENERGY SOURCE ON A GLOBAL SCALE.

TO DEVELOP SOLAR ENERGY AROUND THE WORLD BY TOP EXPERTISE IN PV.

SERVING OUR CLIENTS BY COST-EFFECTIVE, EFFICIENT AND HIGH-QUALITY PRODUCTS.

”

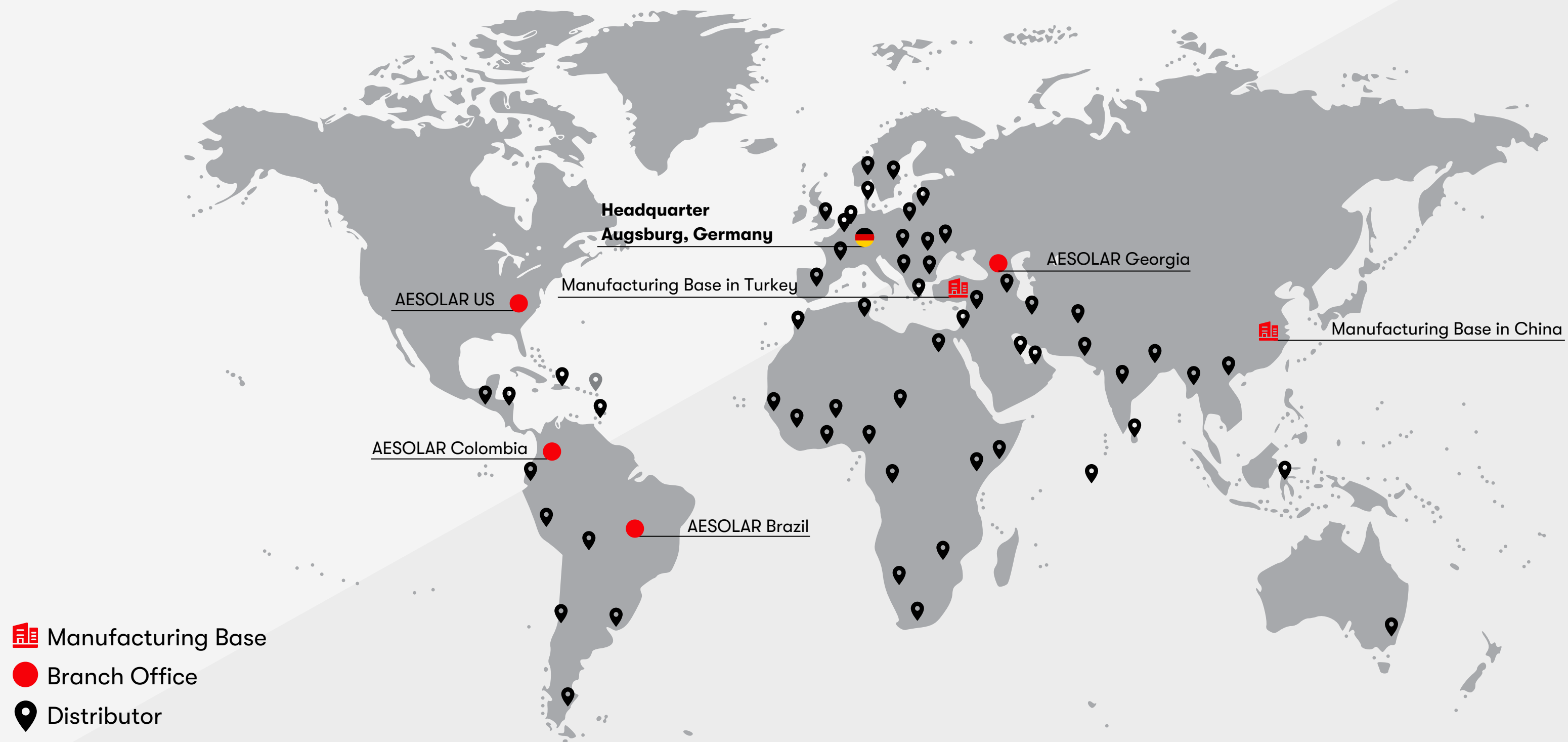
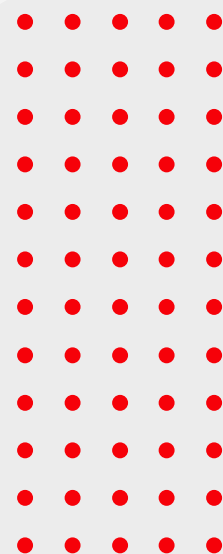
**INNOVATION**

**SUSTAINABILITY**

**DURABILITY & RELIABILITY**



# GLOBAL PRESENCE





# MEET OUR TEAM

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**DR. ALEXANDER MAIER**  
CEO & FOUNDER



**QING MIAO**  
COO



**WALDEMAR HARTMANN**  
GLOBAL SALES DIRECTOR



**DR. HAMED HANIFI**  
R&D DIRECTOR

At the heart of our company lies a team of seasoned professionals, each bringing decades of industry expertise to their respective roles. Our organizational structure is built on a clear, well-defined division of responsibilities and a robust management system, ensuring seamless collaboration across all departments.

Our R&D team combines innovation with precision, developing solutions that are not only cutting-edge but also fully traceable, adhering to the highest standards of quality and compliance. The production department transforms these ideas into tangible results, leveraging state-of-the-art processes and rigorous quality control systems. Meanwhile, our sales and marketing teams work in lockstep to build meaningful client relationships and deliver strategic campaigns that resonate in competitive markets.

Together, we are more than a team — we are a cohesive force driving innovation, reliability, and growth. It's this synergy of talent, experience, and dedication that empowers us to deliver exceptional value to our partners and stakeholders worldwide.





AESOLAR manufacturing China

# OUR HISTORY



AESOLAR manufacturing Turkey



# AESOLAR

AESOLAR was founded in 2003 by Dr. Alexander Maier and his brother in Königsbrunn, Germany. In the 20 years of its existence, AESOLAR has continued to advance in technology and innovation and has had a number of memorable milestones.



# DEVELOPMENT MILESTONES



**2003**

AESOLAR was founded in Königsbrunn, Germany as a family-owned PV systems installation company

**2009**

50MW/year manual assembly mono/poly PV modules manufacturing was established

**2016**

- 250 MW/year automated PV modules manufacturing line was installed
- Shading resistant Hot-Spot Free PV modules invented

**2017**

525 MW/year robotized full automated PV modules manufacturing line was installed in Georgia

**2021**

- AESOLAR ranked on BloombergNEF PV Manufacturer Tier 1 list
- Founding of 1 GW/year modules production line in Turkey

**2022**

- Upgrade in China manufacturing, a total yearly capacity reaches over 2 GW

**2025**

- Became the first Tier 1 PV module manufacturer in the world to receive certificate from DIBt (Deutsches Institut für Bautechnik).
- Established a new office in the US to provide direct service to North American distributors and customers.





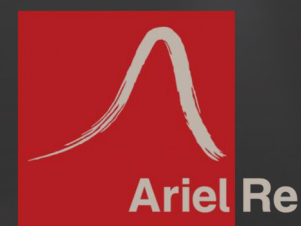
# TOP MANUFACTURING

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The manufacturing of AESOLAR adopts a highly automated process, and the production line makes extensive use of six-axis robots, whose efficiency and precision are superior to that of gantry robots used by most mainstream manufacturers, which guarantees the production efficiency of high-quality modules to the greatest extent possible, and is in line with European standards.



# COMPREHENSIVE CERTIFICATES



Deutsches  
Institut  
für  
Bautechnik



CALIFORNIA  
ENERGY COMMISSION

From the production process to product quality and supply chain, AESOLAR's solar modules have complete and authoritative third-party certifications, which are sufficient for our customers and partners to have no worries.

For our customers and partners, this translates into unparalleled peace of mind. By choosing AESOLAR, you gain access to solar solutions backed by irrefutable third-party endorsements, eliminating uncertainties and mitigating risks. Whether deploying projects in residential, commercial, or utility-scale environments, our certifications serve as a universal testament to compliance, safety, and performance integrity.



# SUPERIOR MATERIALS

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## **Frame**

Structural support for solar panel

## **Back cover**

Protects the back of the panel

## **Rear encapsulation**

Provides insulation and protection

## **Solar cells**

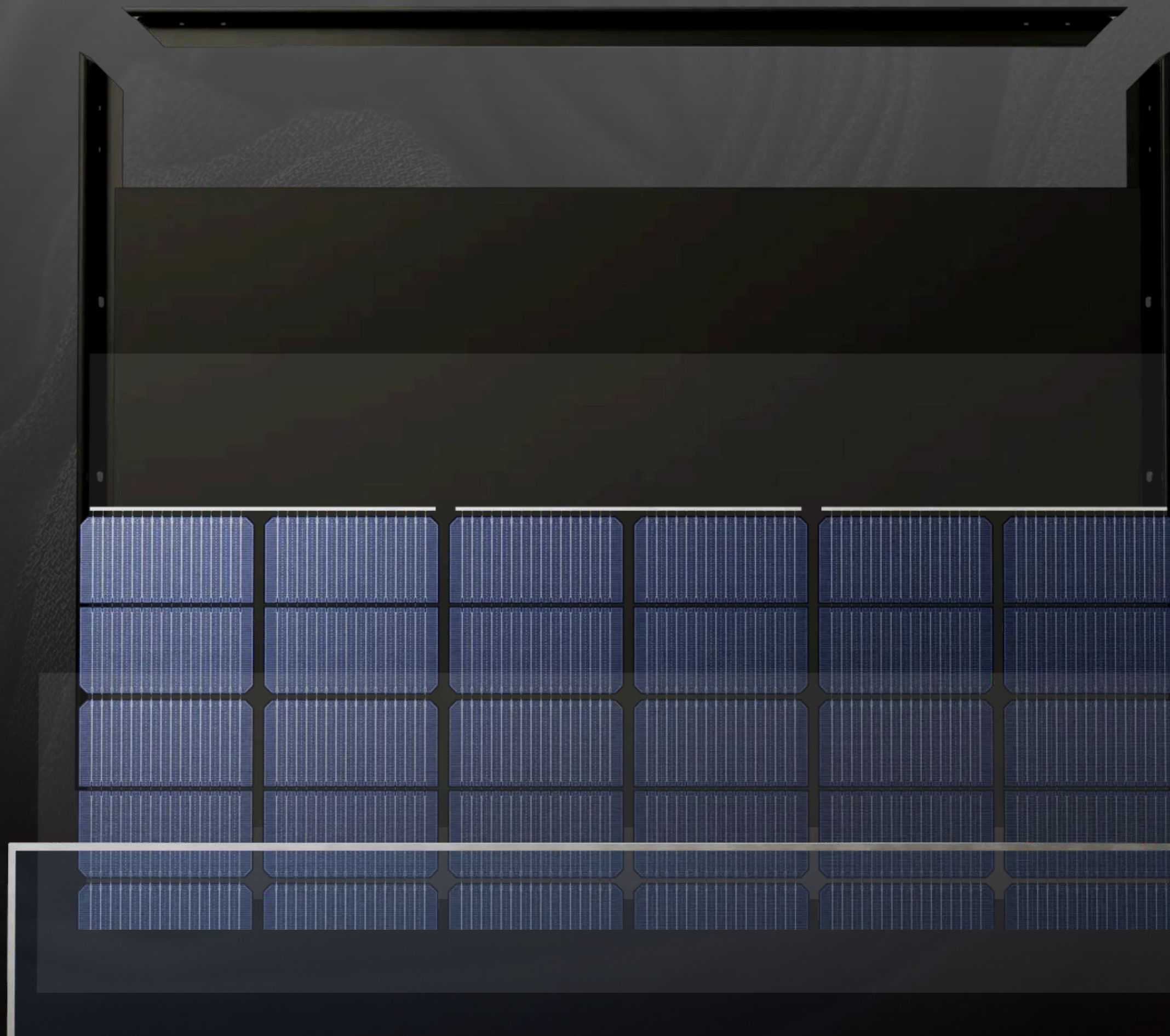
Converts sunlight into electricity

## **Front encapsulation**

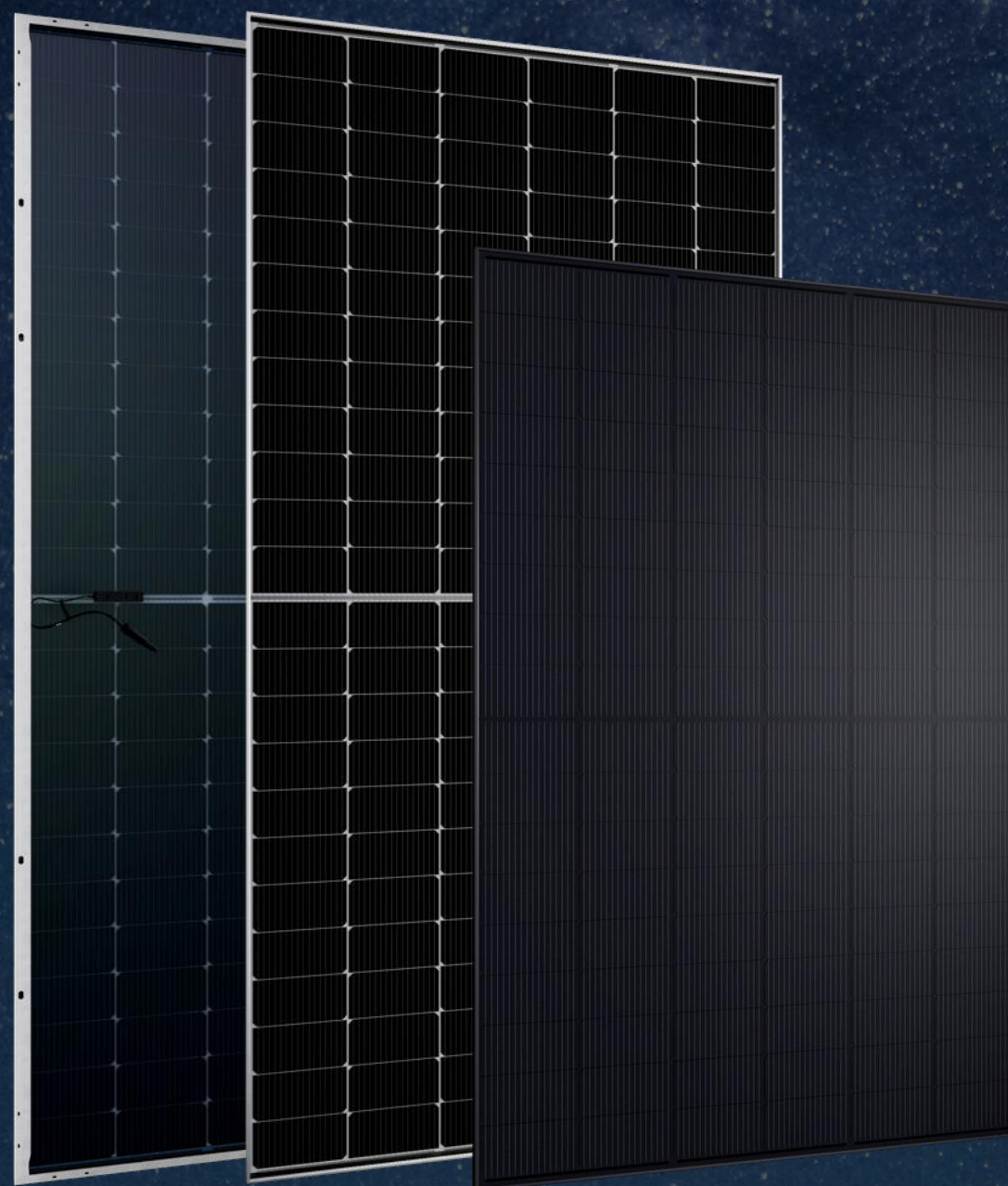
Shields solar cells and seals panel

## **Front cover**

Protects the panel from external elements







# METEOR

## 415W - 725W

n-Type TOPCon PV module  
mono-facial / bifacial  
white / black frame

Deutsche  
Qualität  
Garantiert

**30** YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty





# METEOR series catalogue

## METEOR 182MM CELL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE440CMD-108	420W - 440W	1721 x 1133 x 30mm	936pcs
AE485CMD-120	465W - 485W	1902 x 1133 x 30mm	864pcs
AE580CMD-144	570W - 590W	2278 x 1133 x 30mm	720pcs
MONOFACIAL PV MODULES (BLACK)			
AE435CMD-108E	415W - 435W	1721 x 1133 x 30mm	936pcs
BIFACIAL DOUBLE GLASS PV MODULES			
AE440CMD-108BDS	420W - 440W	1721 x 1133 x 30mm	936pcs
AE485CMD-120BDS	465W - 485W	1902 x 1133 x 30mm	864pcs
AE590CMD-144BDS	570W - 590W	2278 x 1133 x 30mm	720pcs
BIFACIAL DOUBLE GLASS PV MODULES (BLACK)			
AE435CMD-108BDE	415W - 435W	1721 x 1133 x 30mm	936pcs

## METEOR 210MM CELL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
AE725CME-132BDS	705W - 725W	2383 x 1302 x 30mm	648pcs
MONOFACIAL PV MODULE			
AE725CME-132	705W - 725W	2383 x 1302 x 30mm	648pcs



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# METEOR series catalogue

## METEOR G12R RECTANGULAR CELL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
AE460CMER-96BDS	440W - 460W	1762 x 1133 x 30mm	936pcs
AE630CMER-132BDS	610W - 630W	2382 x 1133 x 30mm	720pcs
BIFACIAL DOUBLE GLASS PV MODULES (BLACK)			
AE450CMER-96BDE	430W - 450W	1762 x 1133 x 30mm	936pcs



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Deutsches  
Institut  
für  
Bautechnik

DIBt

TIER 1  
BloombergNEF



# HORIZON

DESIGNED FOR CARPORTS

## 415W - 435W

n-Type TOPCon PV module  
bifacial  
better light transmission

Deutsche  
Qualität  
Garantiert

**30** YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty





# HORIZON series catalogue

## Horizon 182mm cell (TOPCon)




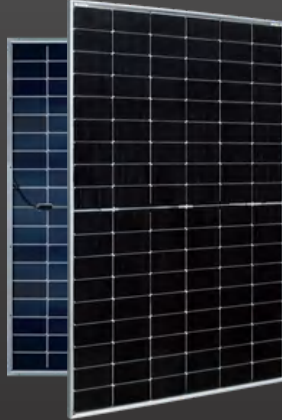
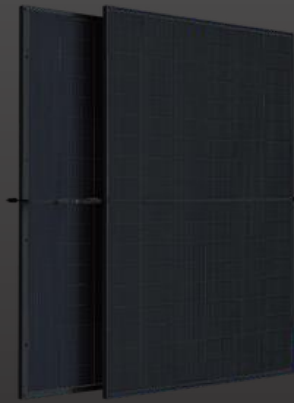



MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
AE435CMD-108BDS	415W - 435W	1721 x 1133 x 30mm	936pcs



**AESOLAR**



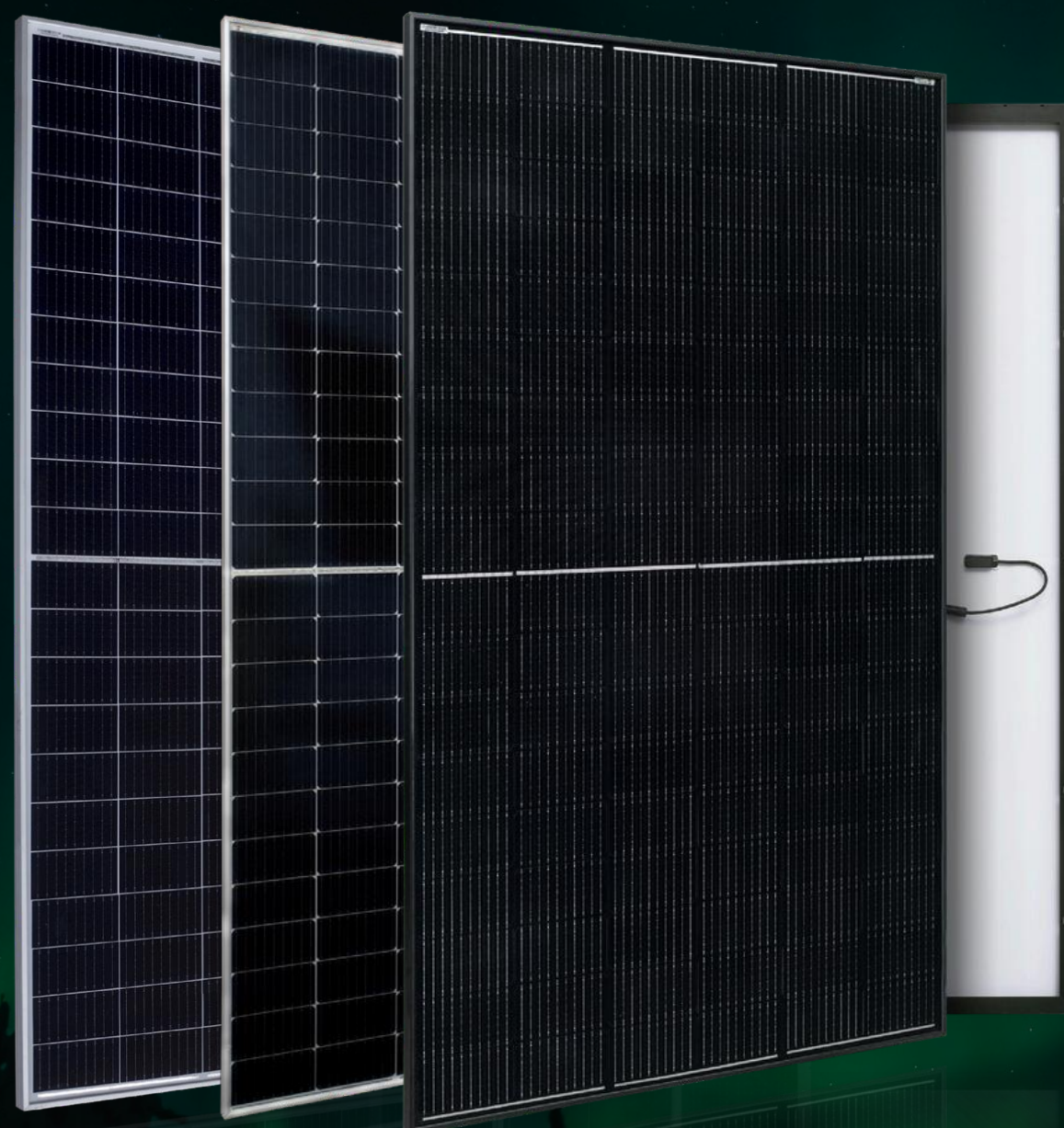
# APPLICATION SCENARIOS

182.3 × 183.5 mm    182.3 × 210 mm    210 × 210 mm			182.3 × 183.5 mm			182.3 × 210 mm		
								
<b>CMD-144BDS</b>	<b>CMER-132BDS</b>	<b>CME-132BDS</b>	<b>CMD-108BDS</b>	<b>CMD-108BDE</b>	<b>CMD-120BDS</b>	<b>CMER-96BDS</b>	<b>CMER-96BDE</b>	
575W - 595W	610W - 630W	705W - 725W	420W - 440W	415W - 435W	475W - 495W	440W - 460W	430W - 450W	
2278 × 1133 mm	2382 × 1133 mm	2383 × 1302 mm	1721 × 1133 mm	1721 × 1133 mm	1902 × 1133 mm	1762 × 1133 mm	1762 × 1133 mm	
22.28-23.05%	22.60-23.34%	22.57-23.21%	21.54-22.57%	21.28-22.31%	22.04-22.97%	22.04-23.04%	21.54-22.54%	
72P	66P	66P	54P	54P	60P	48P	48P	
Utility Projects			C&I and Distributed Grid					

\*Maximum power is based on the highest efficiency BOM.

\*The data is released for regional orders' preliminary guidance. The specific contract review output is subject to the PPC information.





# AURORA

## 360W - 660W

mono-crystalline PV module  
mono-facial / bifacial  
single / double glass

Deutsche  
Qualität  
Garantiert

### 30 YEARS

Performance Warranty

UP TO  

### 30 YEARS

Product Warranty





# AURORA series catalogue

## AURORA 182MM CELL (PERC)

MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
BIFACIAL SINGLE GLASS PV MODULES			
AE550MD-144BS	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs
BIFACIAL DOUBLE GLASS PV MODULES			
AE415MD-108BD	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs
AE460MD-120BD	440W - 460W	1902 x 1133 x 30mm	216pcs / 864pcs
AE505MD-132BD	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs
AE550MD-144BD	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs

## AURORA 182MM CELL (PERC)

MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE415MD-108	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs
AE460MD-120	440W - 460W	1902 x 1133 x 30mm	216pcs / 864pcs
AE505MD-132	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs
AE550MD-144	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs
MONOFACIAL PV MODULES (BLACK)			
AE415MD-108E	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs
AE505MD-132E	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs



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# AURORA series catalogue

## AURORA 166MM CELL (PERC)

MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE380MC-120	360W - 380W	1754 x 1038 x 30mm	246pcs / 962pcs
AE450MC-144	430W - 450W	2094 x 1038 x 30mm	205pcs / 814pcs
BIFACIAL DOUBLE GLASS PV MODULES			
AE380MC-120BD	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE450MC-144BD	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs

## AURORA 210MM CELL (PERC)

MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE600ME-120	580W - 600W	2171 x 1302 x 30mm	180pcs / 648pcs
AE660ME-132	640W - 660W	2383 x 1302 x 30mm	144pcs / 648pcs
BIFACIAL DOUBLE GLASS PV MODULES			
AE600ME-120BD	580W - 600W	2171 x 1302 x 30mm	180pcs / 648pcs
AE660ME-132BD	640W - 660W	2383 x 1302 x 30mm	144pcs / 648pcs



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**TIER 1**  
BloombergNEF

 **COMET**

**700W - 720W**

silicon heterojunction PV module  
half-cut cells  
bifacial & double glass

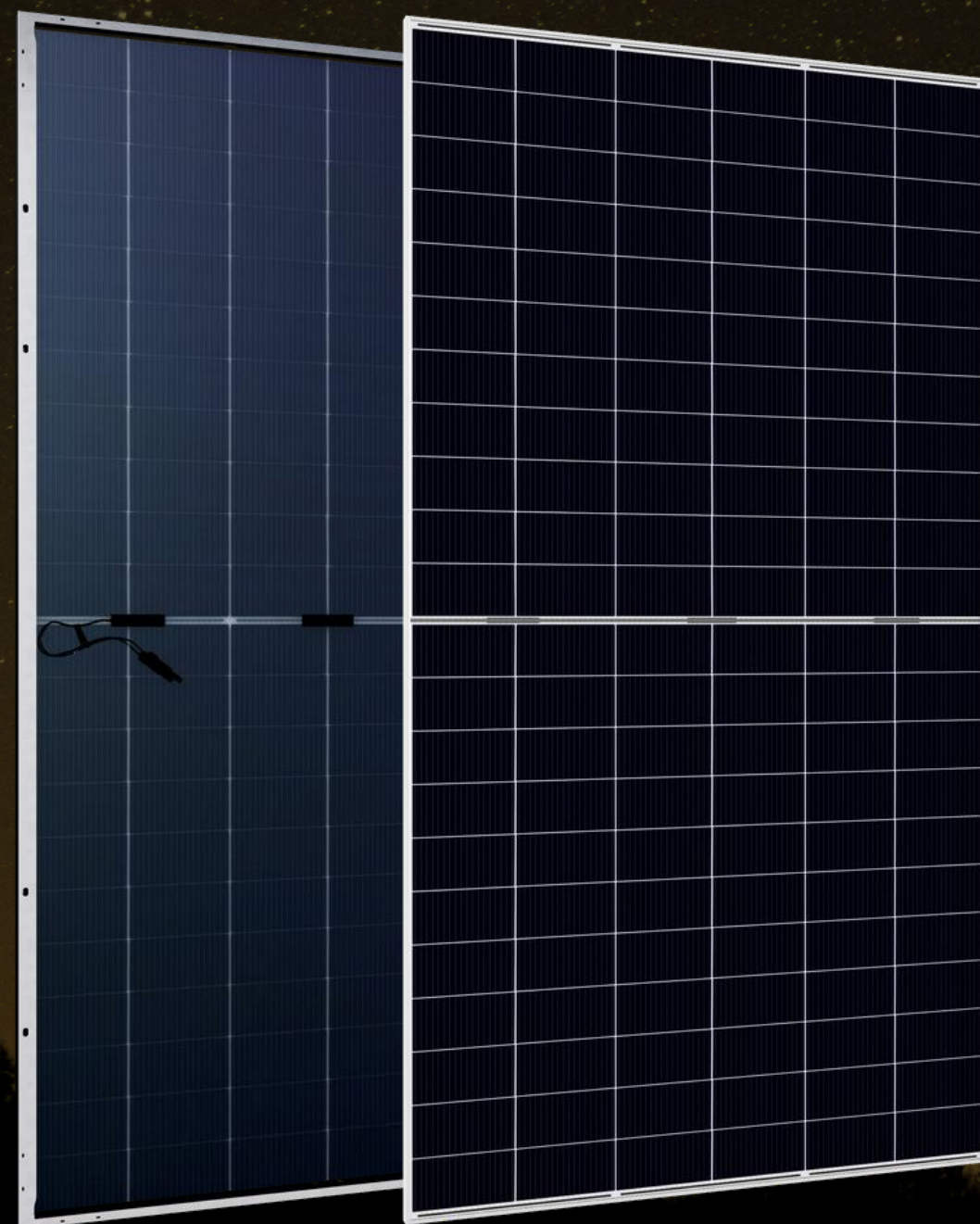
**30** YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty

Deutsche  
Qualität  
Garantiert





# **COMET** series catalogue

## COMET 210MM CELL (HJT)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
TME-132BDS	700W - 720W	2383 x 1302 x 30mm	648pcs





## PERFECT for Agri-PV Solutions

- Protects crops from heavy rain, hail, and wind
- Protects crops against frost and drought under extreme sunshine
- Suitable for installation on greenhouse roofs
- 40% light transmission for homogeneous light distribution under the module (Terra-E)
- Highly reliable and durable under mechanical loads



Terra-V



Terra-E

Deutsche  
Qualität  
Garantiert

**30** YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty





# TERRA series catalogue

## TERRA-V 182MM CELL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
CMD-L144BD	560W - 580W	1190 × 2282 × 30 mm	648pcs
BIFACIAL DOUBLE GLASS PV MODULES (FRAMELESS)			
CMD-L144BD	560W - 580W	1184 × 2276 × 6 mm	360pcs

## TERRA-E 182MM CELL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
CMD-72BD	280W - 300W	1721 × 1133 × 30 mm	936pcs
CMD-80BD	315W - 335W	1902 × 1133 × 30 mm	864pcs
CMD-96BD	375W - 395W	2278 × 1133 × 30 mm	720pcs



**AESOLAR**





# ALPINE

**STRONGER DESIGN  
FOR EXTREME WEATHER**

## 420W - 595W

- Certified to endure **40mm** hailstones (HW4)
- **3.2mm** tempered safety glass offering exceptional durability
- **T6** high-strength anodized aluminum alloy frame ensuring stability

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**30** YEARS

Performance Warranty

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UP TO **30** YEARS

Product Warranty

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Deutsche  
Qualität  
Garantiert



# **ALPINE** series catalogue

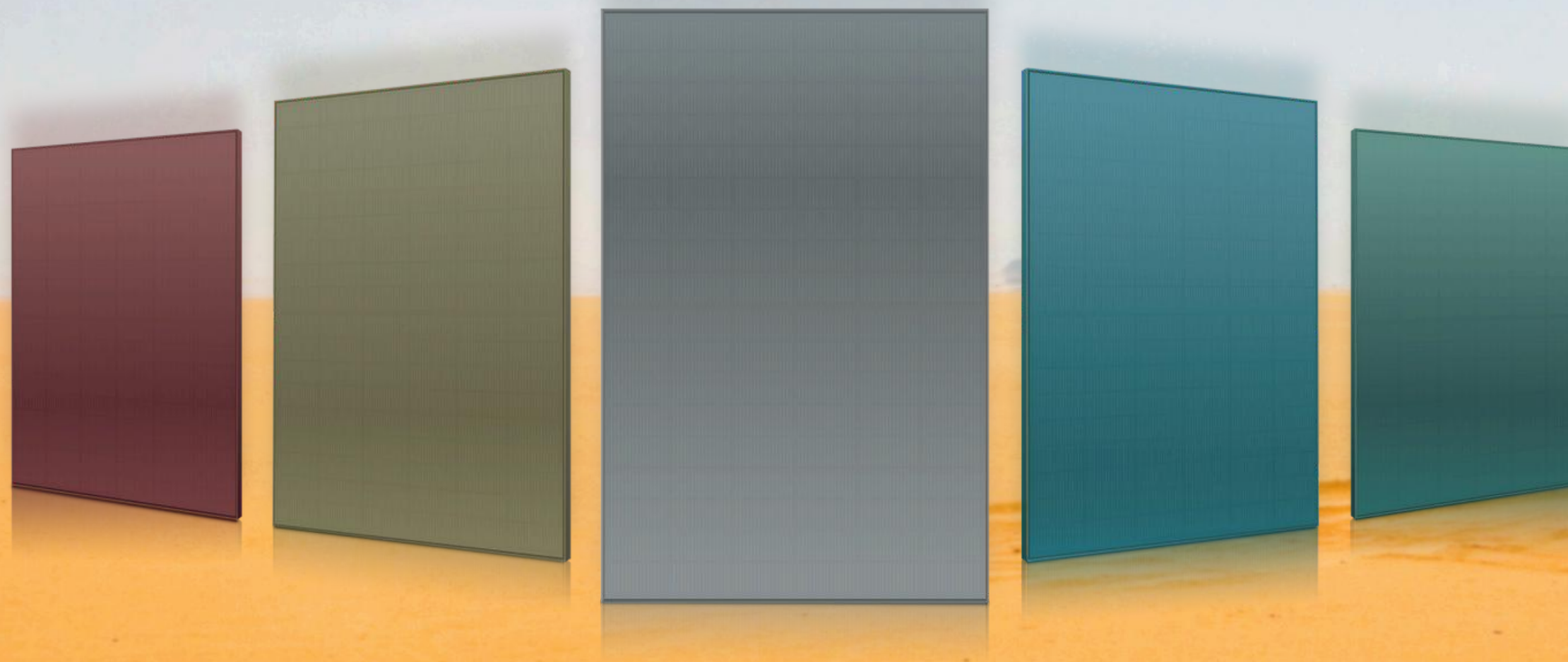
## ALPINE SERIES MODULE DETAIL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
CMER-96BDS-I	440W - 460W	1762 x 1133 x 30mm	936pcs
CMD-144BDS-I	575W - 595W	2278 x 1133 x 30mm	720pcs
BIFACIAL DOUBLE GLASS PV MODULES (BLACK)			
CMER-96BDE-I	430W - 450W	1762 x 1133 x 30mm	936pcs
CMD-108BDE-I	420W - 440W	1721 x 1133 x 30mm	936pcs



**AESOLAR**





**MIRAGE**

Fully Customisable  
Perfect Integration with Architecture  
Aesthetic PV Modules

Deutsche  
Qualität  
Garantiert



# **MIRAGE** series catalogue

## MIRAGE SERIES MODULE DETAIL

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
MIRAGE182-108	355W - 380W	1721 x 1133 x 30mm	936pcs
MIRAGE182-132	450W - 485W	2094 x 1134 x 35mm	792pcs
MIRAGE182-144	494W - 530W	2278 x 1134 x 35mm	720pcs



**AESOLAR**

**INVITAIC**  
Invisible Photovoltaic



# PROJECT REFERENCE

NEW



**Romania, Maramureș**  
**2025**

Distributor: Solar Eco Systems

**30** MW

NEW



**Sri Lanka, Puliyaangulam**  
**2024**

Distributor: E B Creasy Solar

**1.2** MW

NEW



**Philippines, Nueva Era**  
**2025**

Distributor:  
JCE Electrofields Power System

**30** MW (project ongoing)



## PROJECT REFERENCE

### EUROPE



#### **UK, Ravenshorpe 2015**

Distributor: Heinzmann-Gruppe

**39.8** MW



#### **Germany, Trinwillershagen 2012**

Distributor: TK-Gruppe Paderborn

**11.5** MW



#### **Germany, Pritzen 2016**

Distributor: Ahtos-Gruppe

**10** MW



## PROJECT REFERENCE

### EUROPE



#### **Slovenia, Slovenska Bistrica 2024**

Distributor: Stellar

**12** KW



#### **Serbia, Smederevska Palanka 2024**

Distributor: Spice Energy

**1** MW



#### **Italy, Bologna 2013**

Distributor: Municipality

**4.5** MW



# PROJECT REFERENCE

## ASIA



### China, Inner Mongolia 2023

Distributor: China Huaneng

**20** MW



### Japan 2014

Distributor: Ms. Voabachi

**12.6** MW



### Vietnam 2019

Distributor: BBCO

**3** MW



## PROJECT REFERENCE

### SOUTH AMERICA



#### **Brazil, Cuiabá 2024**

Distributor: TECHNO Solar Brazil

**3** MW



#### **Brazil, São João Batista 2023**

Distributor: JJS Solados

**518** KW



#### **Uruguay, Canelones 2024**

Distributor:  
ERGO Soluciones Energeticas

**700** KW



# EXHIBITIONS WORLDWIDE

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Every month, our dedicated sales, marketing, and R&D teams showcase AESOLAR's brand and products at premier exhibitions across the globe. Each event is meticulously planned to deliver a powerful brand presence, ensuring our message resonates with the industry.

We go beyond promotion—we provide unparalleled support to both new and long-standing customers, strengthening relationships and driving innovation forward.







environment for a long time: global warming, rising sea levels, destruction of land, and a decrease in species diversity.

We hope that Albert's image will serve as a reminder of the urgent need for new energy transitions, or perhaps in the future, our future generations will only see Albert and not the truly beautiful polar bear.

In order to integrate corporate social responsibility into our daily business, we have committed ourselves to upholding the Ten Principles of the United Nations Global Compact in the areas of human rights, labour, environment and anticorruption.

Our company mascot - Albert the Bear - also represents our most visionary social responsibility.

The use of fossil fuels has had a significant impact on our



# CSR & ALBERT THE BEAR



# AWARDS



**2025**  
KIWA PVEL Top Performer



**2025**  
EUPD Research  
Top Innovation Germany



**2024**  
PV Magazine Test “Very  
Good” Module



**2023**  
KIWA PVEL Top Performer



**2022**  
Solar Future Awards 2022  
Smart Technology Innovation  
of the Year



**2021**  
Solar Energy Innovation and  
Business Excellence Awards  
(MENA)



**2021**  
Top Renewable Energy  
Solution Provider in Europe



**2021**  
UN Global Compact  
Partnership for Sustainability  
Planet Category



**2021**  
Top PV Brand in Vietnam



**2021**  
Forefront of providing Solar  
Tech solutions and  
transforming businesses



**2020**  
Top Design Award 2020



**2019**  
Intersolar 2019 Photovoltaics  
Award Finalist



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# AESOLAR

AESOLAR



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