



AESOLAR

It's time to save the world.

COMPANY PROFILE



ABOUT US

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 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.

Currently, we have planned 5GW module production plants in Germany, Bulgaria, Czech Republic and Greece, which are expected to be fully completed and operational by 2025.

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.

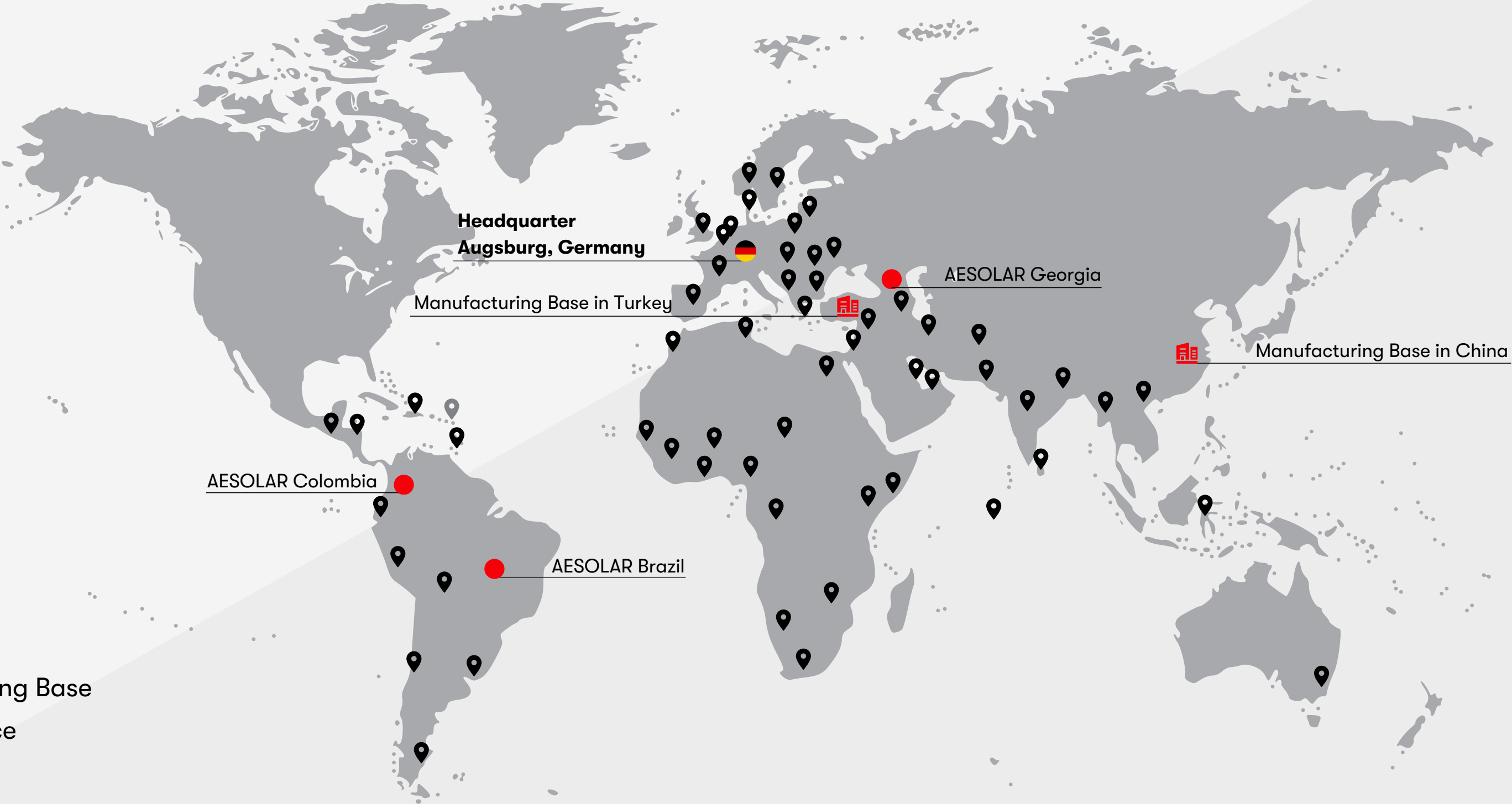
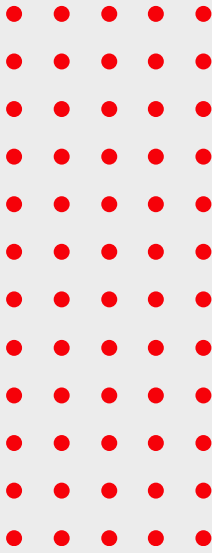
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INNOVATION

SUSTAINABILITY

DURABILITY & RELIABILITY

GLOBAL PRESENCE



-  Manufacturing Base
-  Branch Office
-  Distributor

MEET OUR TEAM



DR. ALEXANDER MAIER
CEO & FOUNDER



QING MIAO
COO



WALDEMAR HARTMANN
CMO



WALDEMAR MAIER
CTO



DR. HAMED HANIFI
R&D DIRECTOR

The company has a clear departmental division of responsibilities and management system, with staff with extensive industry experience in each function, which ensures that we can provide complete and traceable R&D, production, sales and marketing support.



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

2024

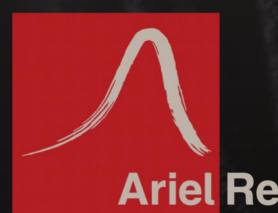
- Start to plan new factories in Germany, Bulgaria, Greece, and the USA



TOP MANUFACTURING

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



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.

SUPERIOR MATERIALS

Frame

Structural support for solar panel

Back cover

Protects the back of the panel

Rear encapsulation

Provides insulation and protection

Solar cells

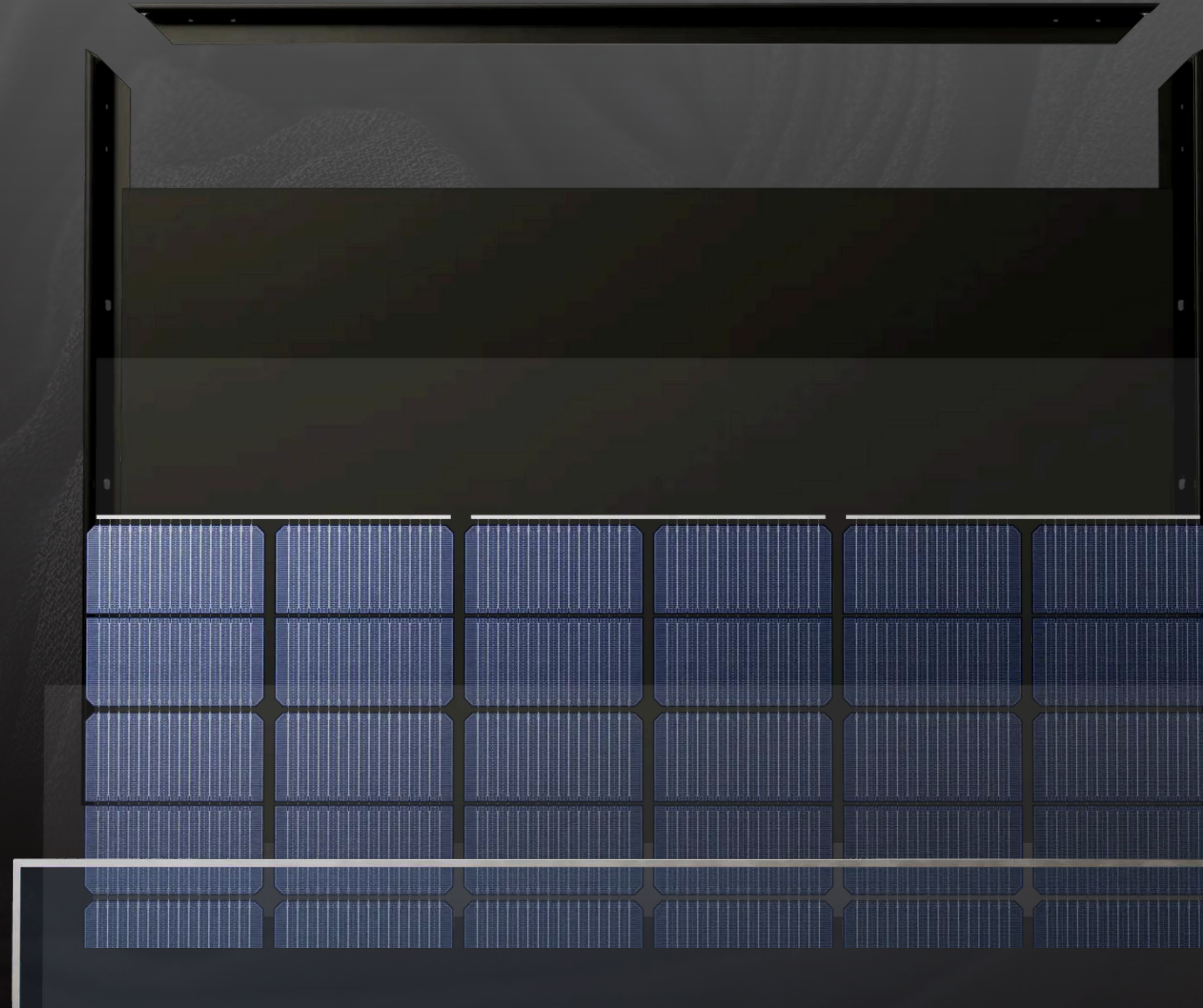
Converts sunlight into electricity

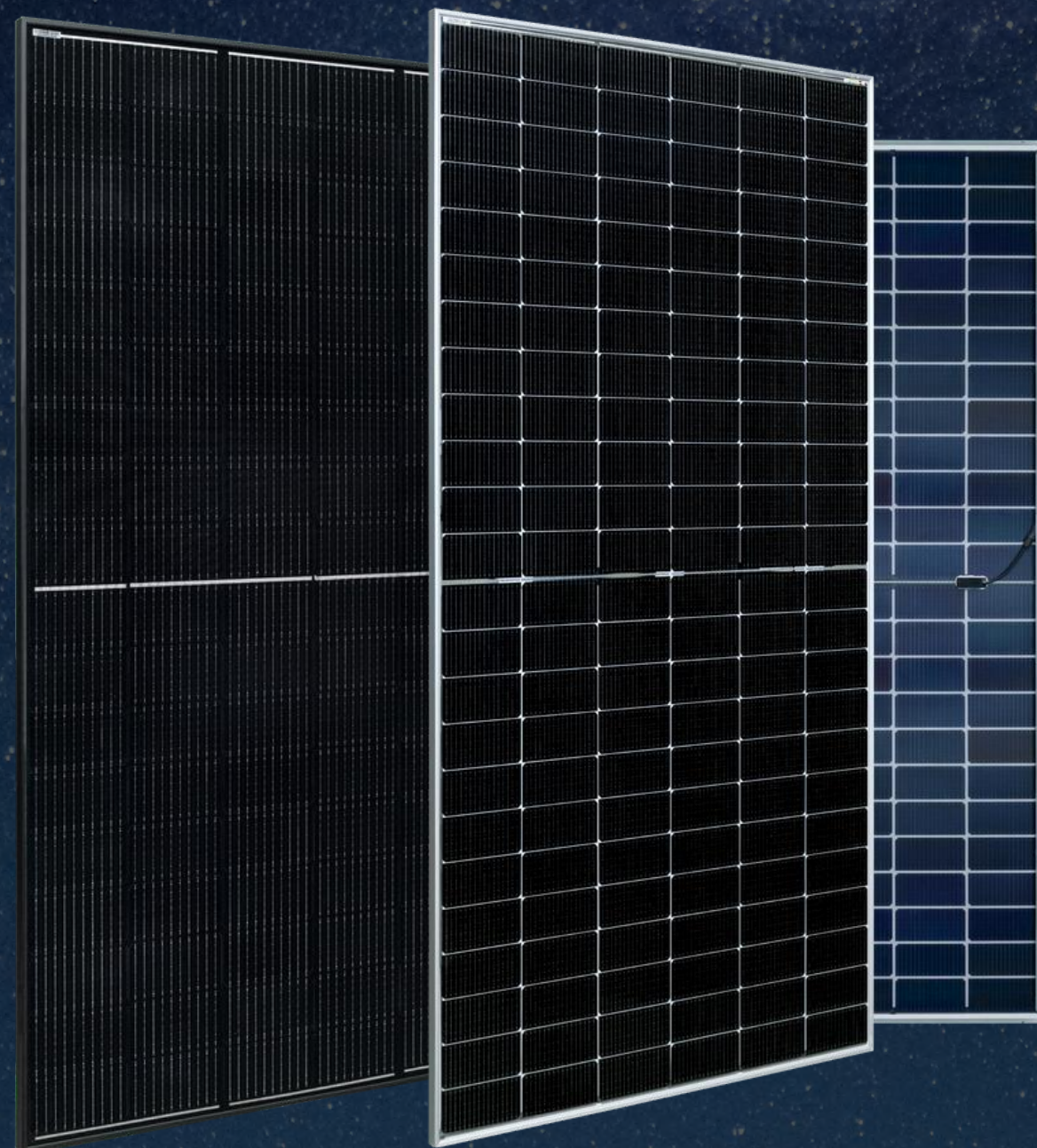
Front encapsulation

Shields solar cells and seals panel

Front cover

Protects the panel from external elements





METEOR

MORE POWER
LESS DEGRADATION

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



AESOLAR



TIER 1
BloombergNEF



HORIZON

POWER YOUR DRIVE
WITH THE SUN

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)

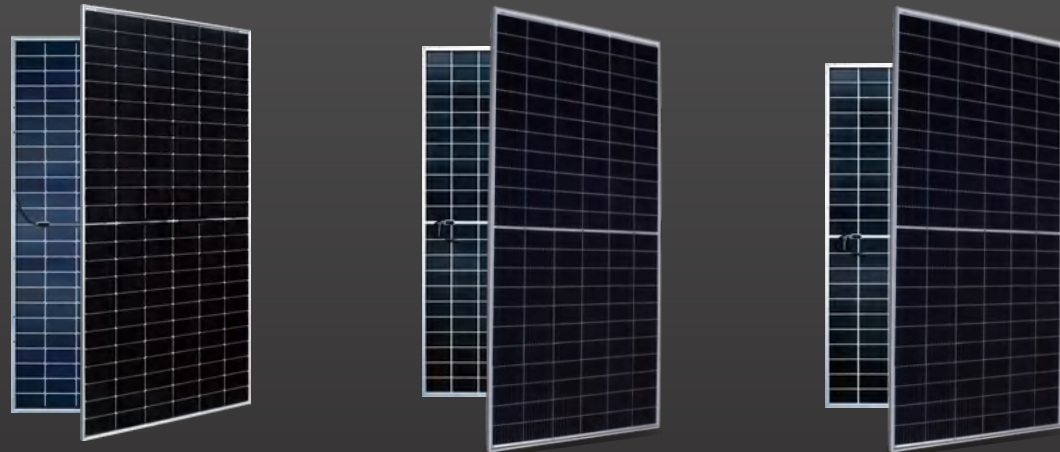
MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
AE575CMD-108BDS	415W - 435W	1721 x 1133 x 30mm	936pcs



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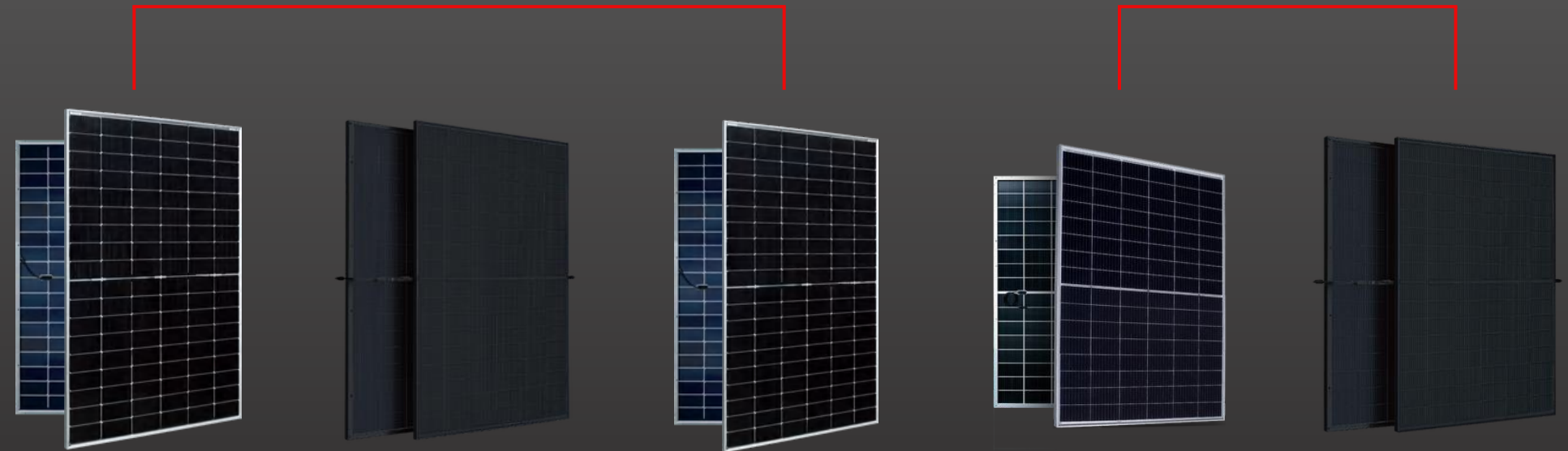
APPLICATION SCENARIOS

182.3 × 183.5 mm 182.3 × 210 mm 210 × 210 mm



182.3 × 183.5 mm

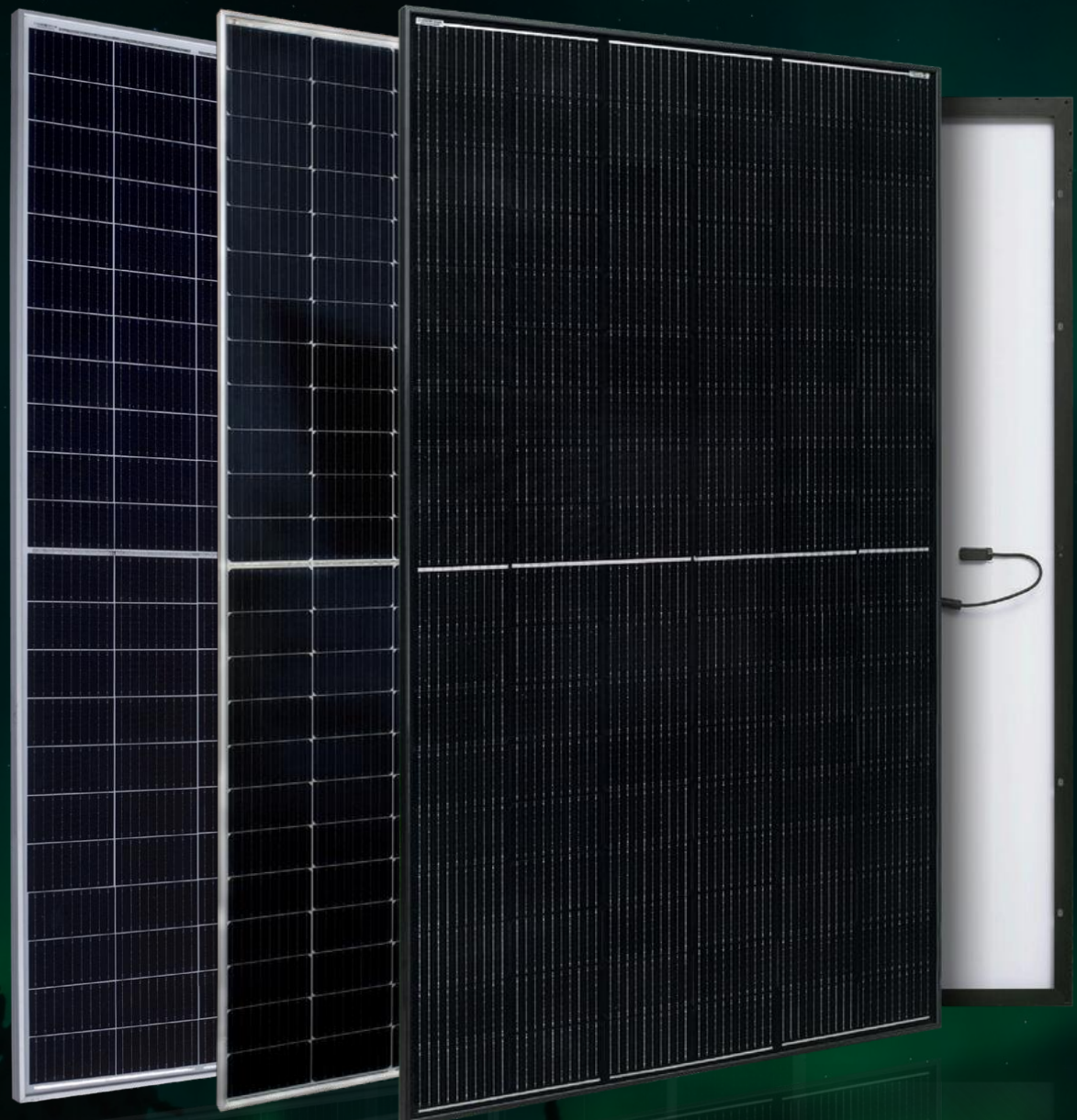
182.3 × 210 mm



CMD-144BDS	CMER-132BDS	CME-132BDS	CMD-108BDS	CMD-108BDE	CMD-120BDS	CMER-96BDS	CMER-96BDE
575W - 595W	610W - 630W	705W - 725W	420W - 440W	415W - 435W	465W - 485W	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
22.08-22.86%	22.23-22.97%	22.57-23.21%	21.54-22.57%	21.28-22.31%	21.58-22.51%	21.79-22.79%	21.29-22.29%
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

HIGH ENERGY YIELD
FLEXIBILITY
DURABILITY

360W - 660W

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

Deutsche
Qualität
Garantiert

30 YEARS
Performance Warranty

30 YEARS
Product Warranty



AURORA series catalogue

AURORA 182MM CELL (PERC)

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



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AURORA series catalogue

AURORA 166MM CELL (PERC)

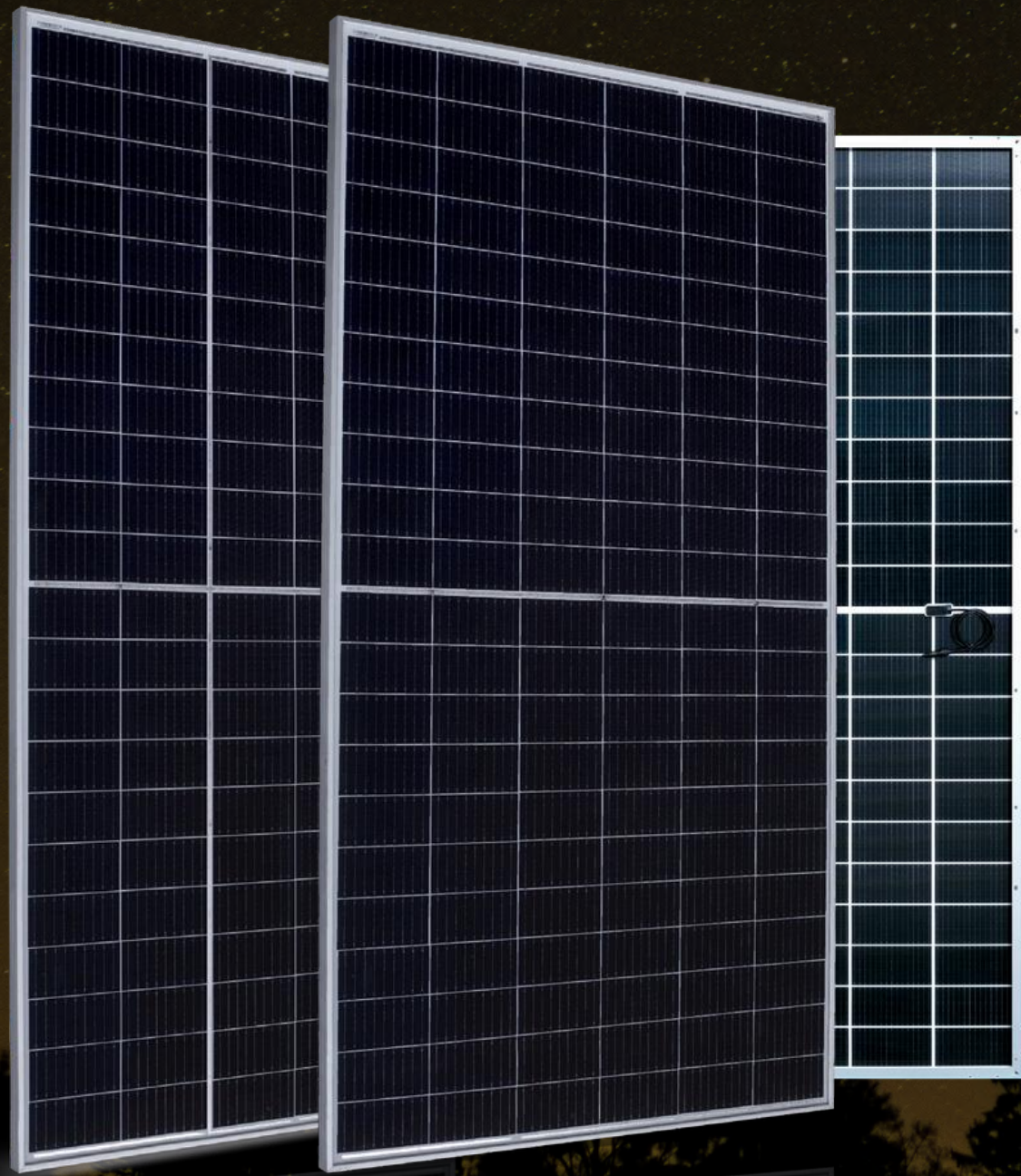
MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE380MC-120	360W - 380W	1754 x 1038 x 30mm	246pcs / 962pcs
AE450MC-144	430W - 450W	2094 x 1038 x 30mm	205pcs / 814pcs
MONOFACIAL PV MODULES (BLACK)			
AE380MC-120E	360W - 380W	1754 x 1038 x 30mm	246pcs / 962pcs
AE450MC-144E	430W - 450W	2094 x 1038 x 30mm	205pcs / 814pcs
BIFACIAL SINGLE GLASS PV MODULES			
AE380MC-120BS	360W - 380W	1754 x 1038 x 30mm	246pcs / 962pcs
AE450MC-144BS	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 SINGLE GLASS PV MODULES			
AE600ME-120BS	580W - 600W	2171 x 1302 x 30mm	180pcs / 648pcs
AE660ME-132BS	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



AESOLAR



COMET

ENRICH YOUR ENERGY YIELD

630W - 720W

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

Deutsche
Qualität
Garantiert

30 YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty



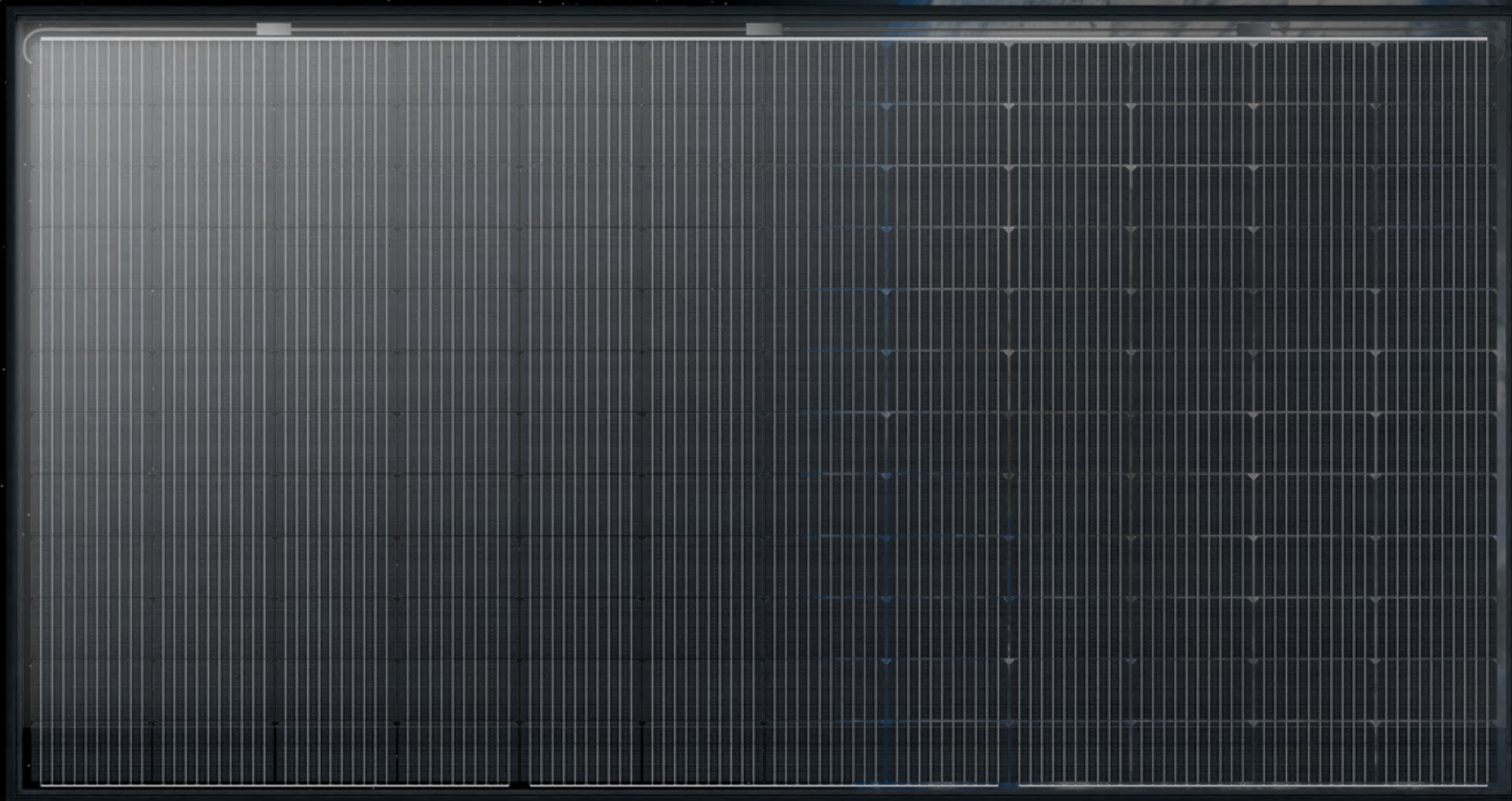
COMET series catalogue

COMET 210MM CELL (HJT)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
TME-120BDS	630W - 650W	2171 x 1302 x 30mm	648pcs
TME-132BDS	700W - 720W	2383 x 1302 x 30mm	648pcs



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560W - 580W

30 YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty

Deutsche
Qualität
Garantiert

Extreme resistance to wind and snow
Highest bifaciality in real conditions



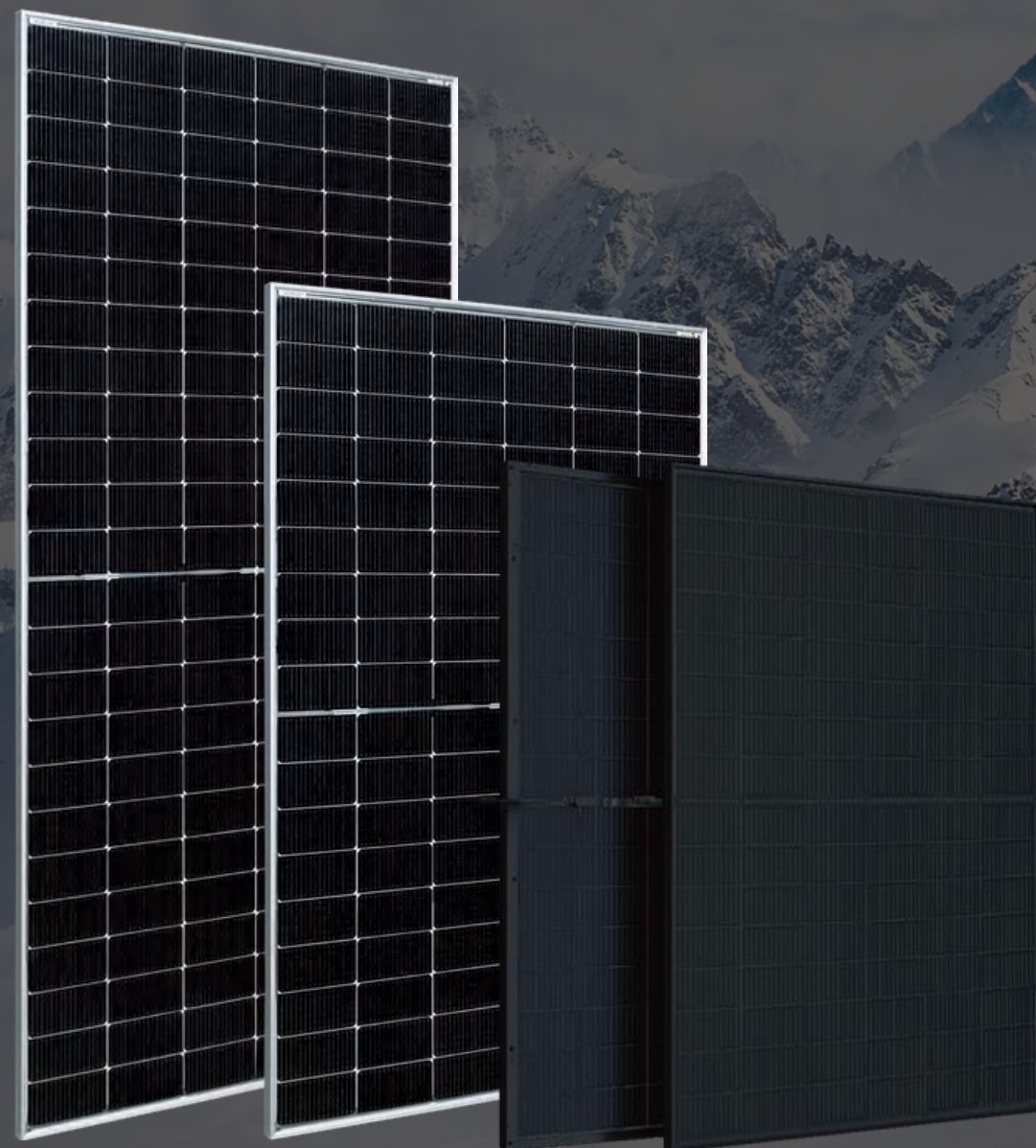
TERRA series catalogue

TERRA 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



AESOLAR



ALPINE

HAIL-PROOF, WEATHER-READY,
SOLAR STRONG.

420W - 595W

Certified to endure **40mm** hailstones
with zero power loss

3.2mm tempered safety glass
offering exceptional durability

Deutsche
Qualität
Garantiert

30 YEARS

Performance Warranty

UP TO **30** YEARS

Product Warranty



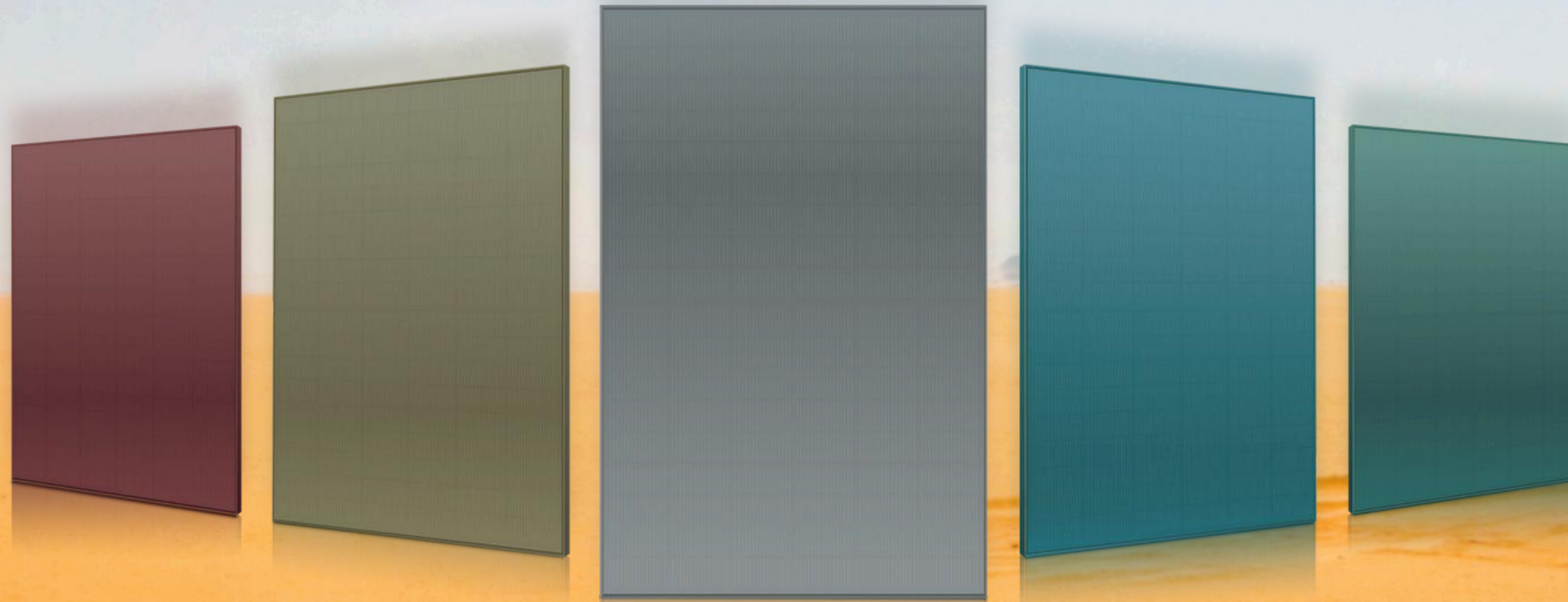
ALPINE series catalogue

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-108BDS-I	420W - 440W	1721 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



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

PROJECT REFERENCE

NEW



Romania, Maramureș
2025

Distributor: Solar Eco Systems

30 MW

NEW



Sri Lanka, Puliyangulam
2024

Distributor: E B Creasy Solar

1.2 MW

NEW



Philippines, Nueva Era
2025

Distributor:
JCE Electrofields Power System

30 MW (project ongoing)

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

SOUTH AMERICA



Brazil, Cuiabá
2024

Distributor: TECHNO Solar Brazil

5 MW



Brazil, São João Batista
2023

Distributor: JJS Solados

518 KW



Uruguay, Canelones
2024

Distributor:
ERGO Soluciones Energeticas

700 KW

EXHIBITIONS WORLDWIDE

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



2024
PV Magazine Test “Very Good” Module



2023
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



2018
PV Magazine 2018 Top
Innovation Award



2017
SNEC 2017 PV Power Expo
Top 10 Highlights Award

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Factory: MOSAB 3.Kısım, Mustafa Çapra Cd. No:1, 45030 Yunusemre/Manisa
Tel.: 0236 232 05 55



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