




COMPANY PROFILE



It's time to save the world!

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**DECEMBER
2023**



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 Königsbrunn, 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 95 countries, and our products are available in more than 100 countries and regions around the world.

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.

”

STABILITY

INNOVATION

DURABILITY & RELIABILITY

MEET OUR TEAM



DR. ALEXANDER MAIER
CEO & FOUNDER



QING MIAO
COO



WALDEMAR HARTMANN
SALES DIRECTOR



WALDEMAR MAIER
CTO



DR. HAMED HANIFI
R&D DIRECTOR

We have a clear company structure and experienced management, reliable technicians and engineers in the industry, as well as a professional sales team, who work together to ensure that AESOLAR is a trusted brand.



AESOLAR manufacturing line in China

OUR HISTORY



AESOLAR



AESOLAR manufacturing line in Turkey

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.

This year, we are celebrating our 20th anniversary with a new brand image, the former rising sun now breaks over the shimmering sea.

DEVELOPMENT TIMELINE

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 line, a total yearly capacity reaches over 1.8 GW
- Start to plan new factories in Germany, Bulgaria, Greece, and Saudi Arabia

2023

AESOLAR have planned to increase the manufacturing line in Turkey to 2GW by the end of 2023

BUSINESS MAP

Capacity


2GW / year

Total Area

108,600 sqm

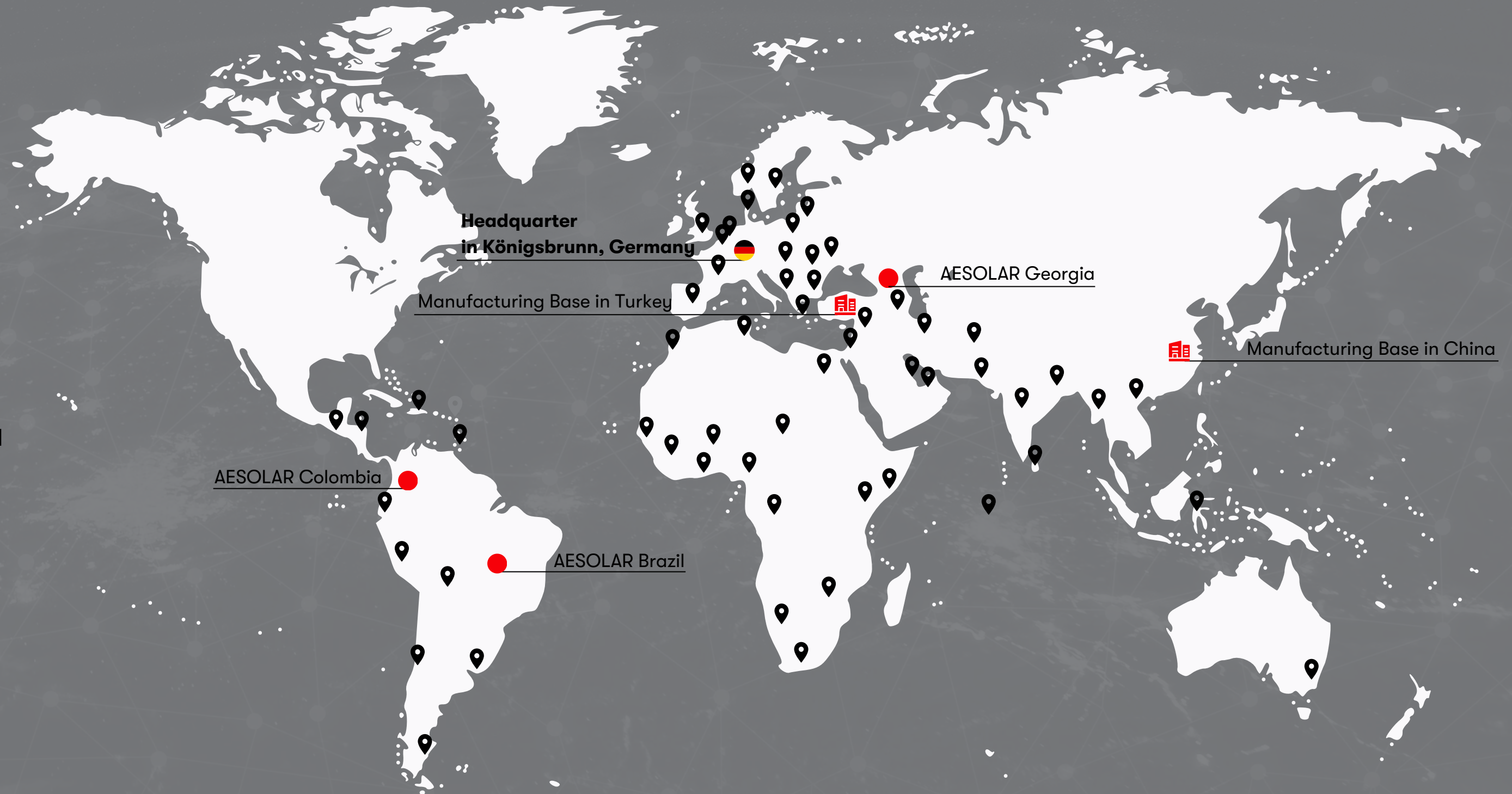
Manufacturing Area

62,000 sqm

 Manufacturing Base

 Branch Office

 Distributor



SUPERIOR MATERIALS

AESOLAR guarantees high-quality and best performance of photovoltaic modules using only superior raw materials and components from leading suppliers.

Frame

Glass

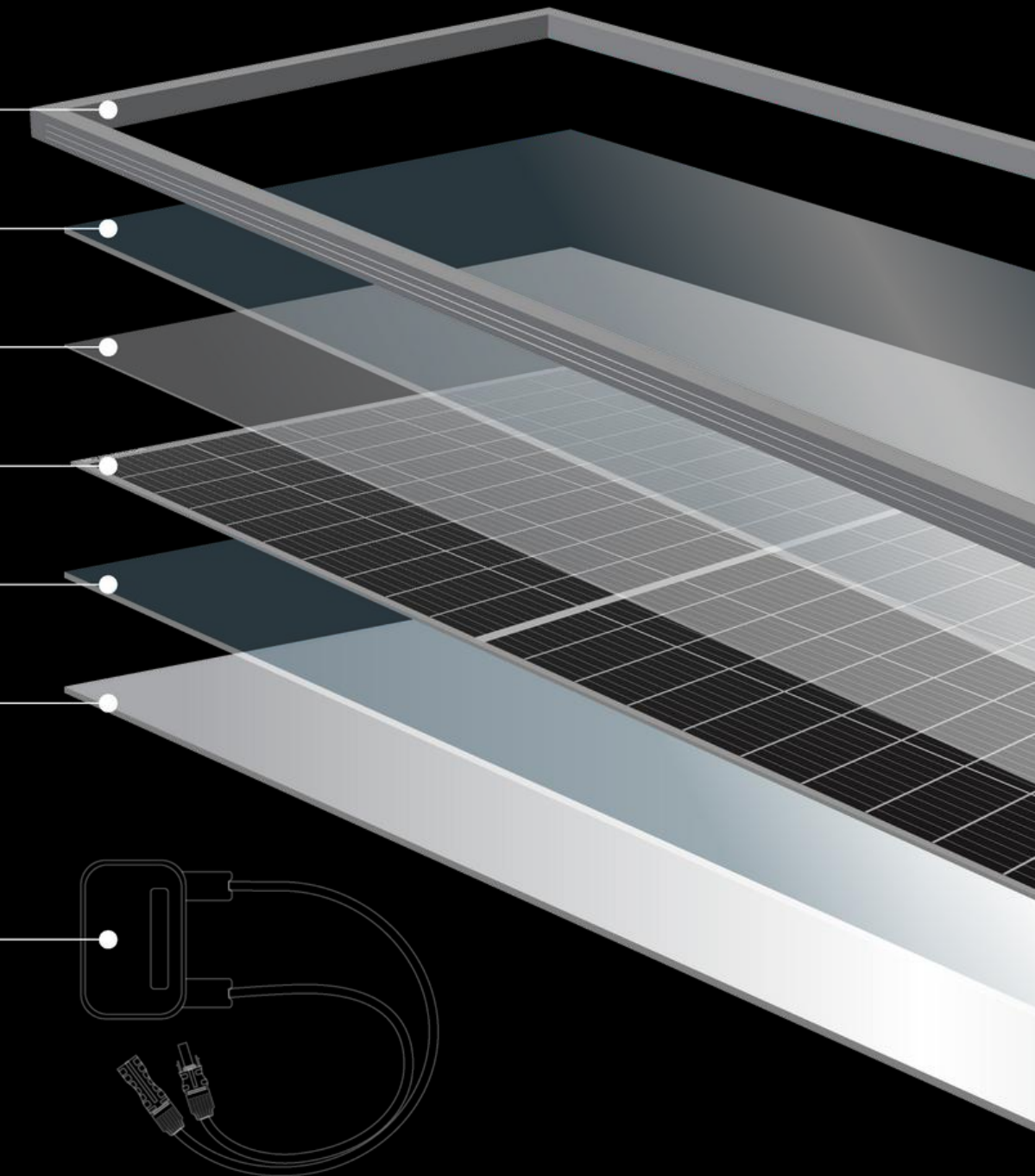
Encapsulation

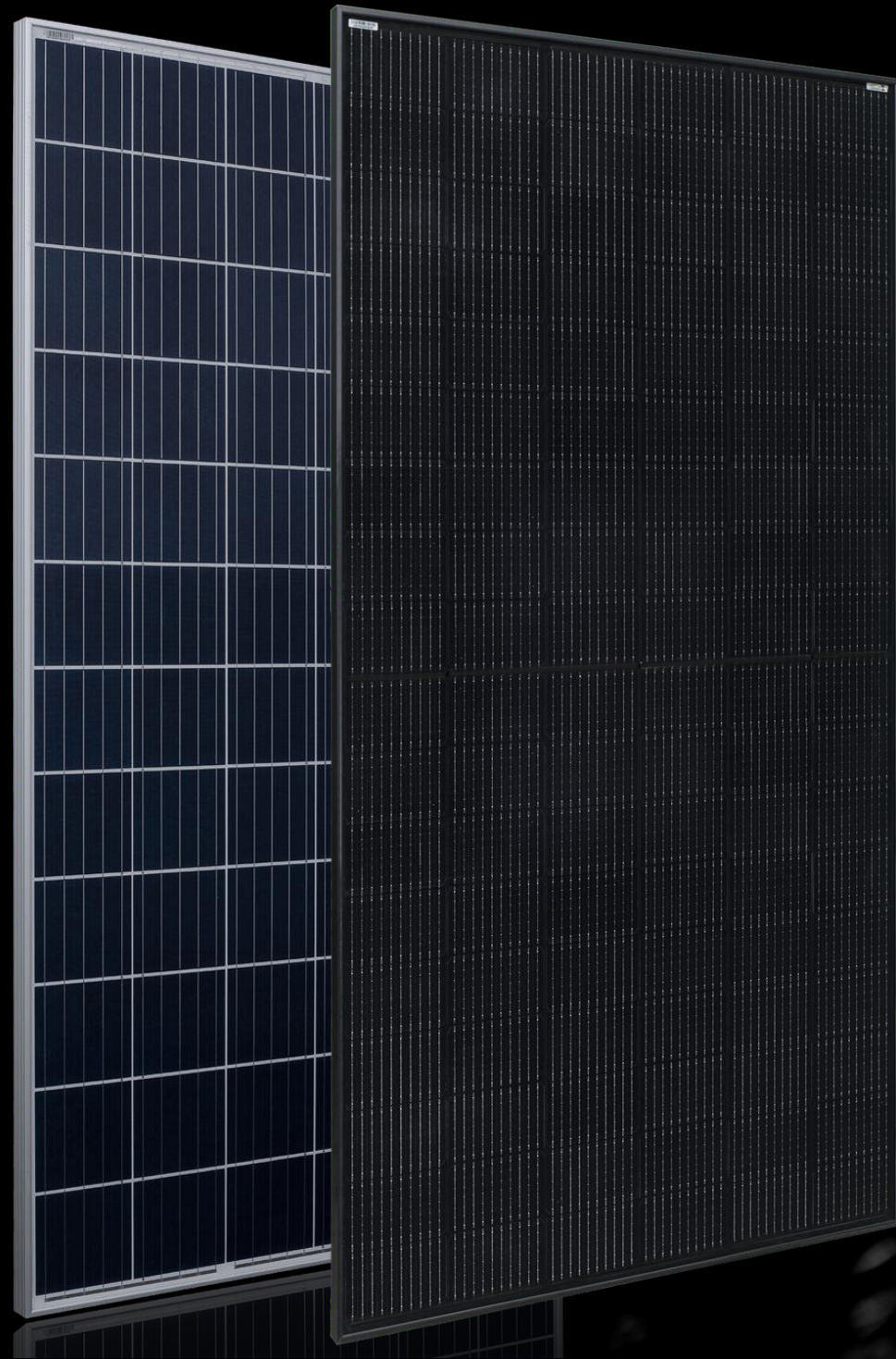
Solar cell

Encapsulation

Backsheet

Junction Box





HSF smart hot-spot free shading resistant PV module

HOT-SPOT FREE TECHNOLOGY
protects different segments of cells
by dedicated bypass diodes

190W - 335W

mono-crystalline PV module
full / half-cut cells • mono-facial

Deutsche
Qualität
Garantiert

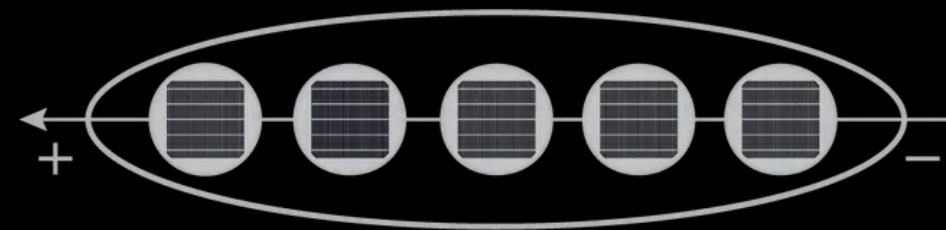


* The concept of hot-spot-free module is tested and evaluated by Fraunhofer CSP under partial shading conditions. The report can be found on ae-solar.com, and the peer-reviewed publication in Solar Energy Journal can be found on sciencedirect.com. ref: Hanifi et al., Solar Energy, Vol. 193, 2019

HOT-SPOT FREE TECHNOLOGY

tested by
Fraunhofer
CSP

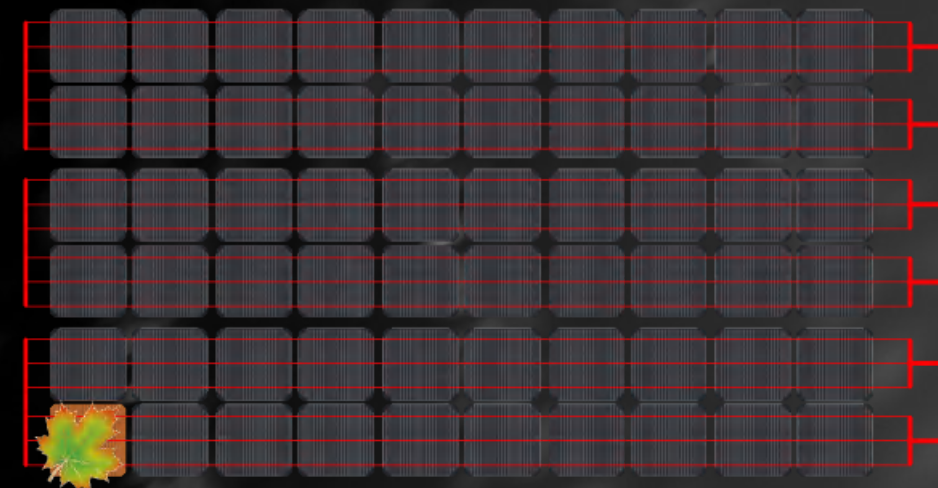
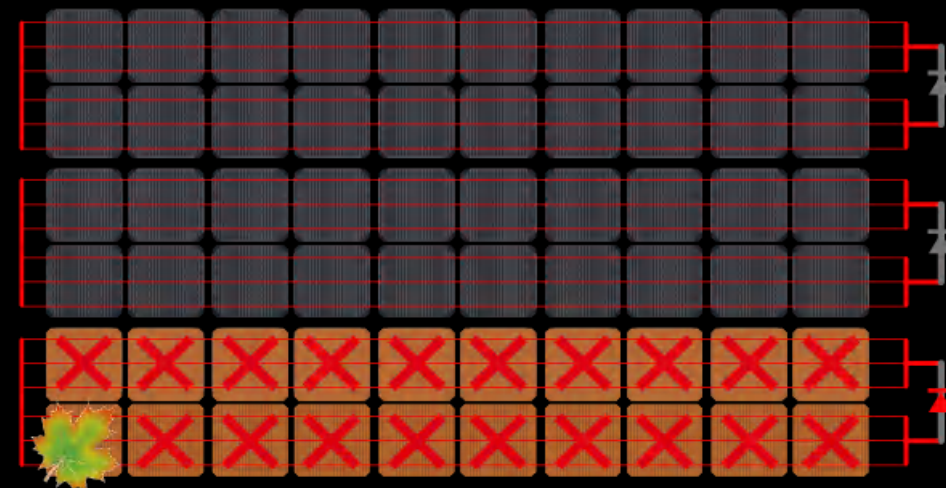
STANDARD MODULE



AESOLAR AMART HOT-SPOT FREE MODULE

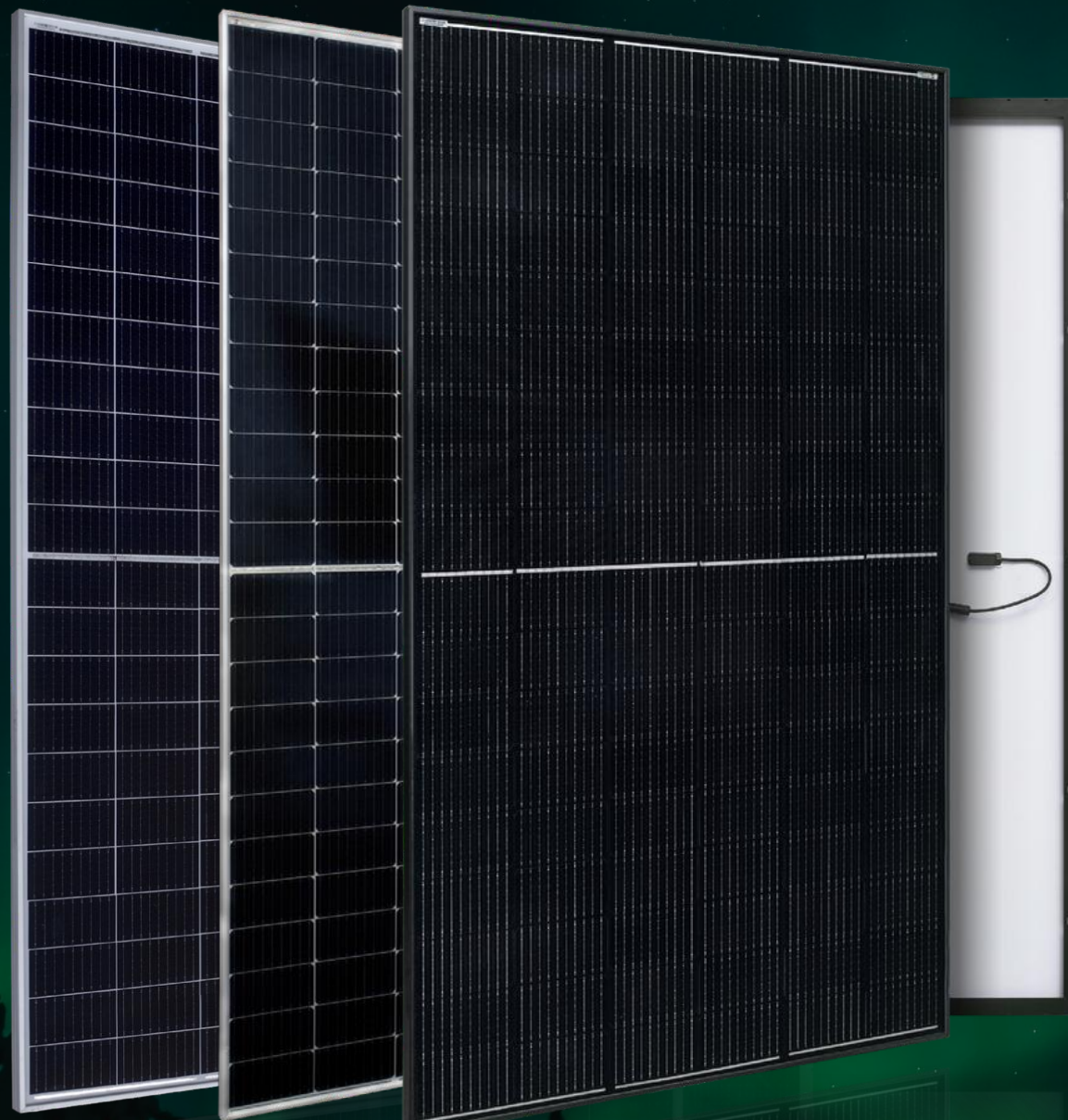


HSF technology protects different segments of cells by dedicated bypass diodes



In a standard module, the impact of shading on a single cell affects a whole string.
While an AESOLAR smart module with Hot-spot Free technology loses the output of only one single cell during the shading.

* The concept of hot-spot-free module is tested and evaluated by Fraunhofer CSP under partial shading conditions. The report can be found on ae-solar.com, and the peer-reviewed publication in Solar Energy Journal can be found on sciencedirect.com.
ref: Hanifi et al., Solar Energy, Vol. 193, 2019



AURORA series

HIGH ENERGY YIELD
FLEXIBILITY
DURABILITY

335W - 660W

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

Deutsche
Qualität
Garantiert

30
years
Performance
Guarantee

15
years
Product
Guarantee

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	180pcs / 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	180pcs / 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	180pcs / 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	180pcs / 864pcs
AE505MD-132E	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs

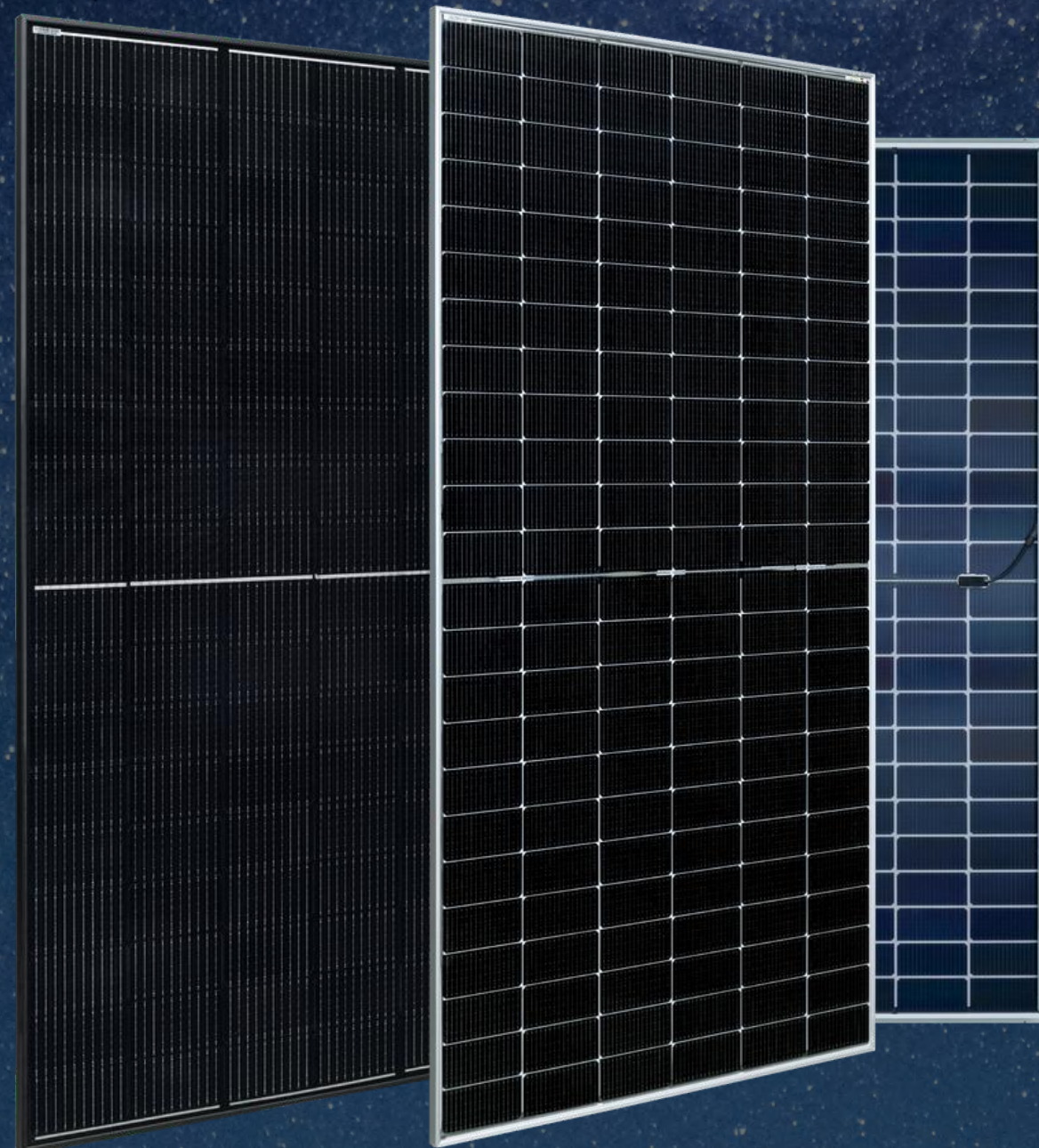
AURORA SERIES CATALOGUE

Aurora 166mm cell (PERC)

MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES			
AE380MC-120	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE450MC-144	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
MONOFACIAL PV MODULES (BLACK)			
AE380MC-120E	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE450MC-144E	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
BIFACIAL SINGLE GLASS PV MODULES			
AE380MC-120BS	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE450MC-144BS	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
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	2171x 1302 x 30mm	180pcs / 612pcs
AE660ME-132	640W - 660W	2383 x 1302 x 30mm	144pcs / 612pcs
BIFACIAL SINGLE GLASS PV MODULES			
AE600ME-120BS	580W - 600W	2171x 1302 x 30mm	180pcs / 612pcs
AE660ME-132BS	640W - 660W	2383 x 1302 x 30mm	144pcs / 612pcs
BIFACIAL DOUBLE GLASS PV MODULES			
AE600ME-120BD	580W - 600W	2171x 1302 x 30mm	180pcs / 612pcs
AE660ME-132BD	640W - 660W	2383 x 1302 x 30mm	144pcs / 612pcs



METEOR series

MORE POWER
LESS DEGRADATION

415W - 580W

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

Deutsche
Qualität
Garantiert



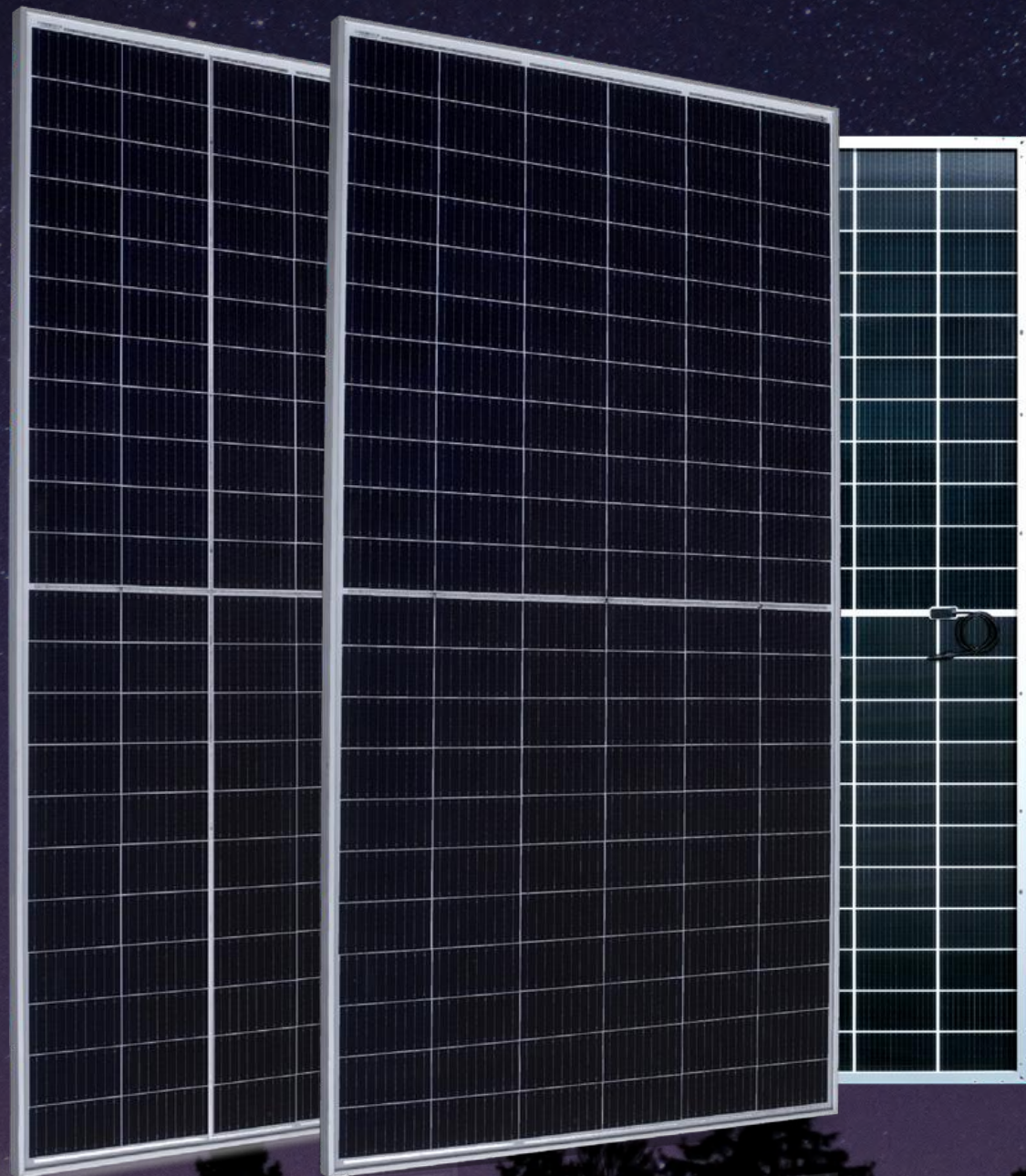
METEOR SERIES CATALOGUE

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	560W - 580W	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
AE580CMD-144BDS	560W - 580W	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			
AE700CME-132BDS	680W - 700W	2383 x 1302 x 30mm	612pcs
MONOFACIAL PV MODULE			
AE700CME-132	680W-700W	2383 x 1302 x 30mm	612pcs



COMET series

ENRICH YOUR ENERGY YIELD

560W - 700W

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

Deutsche
Qualität
Garantiert

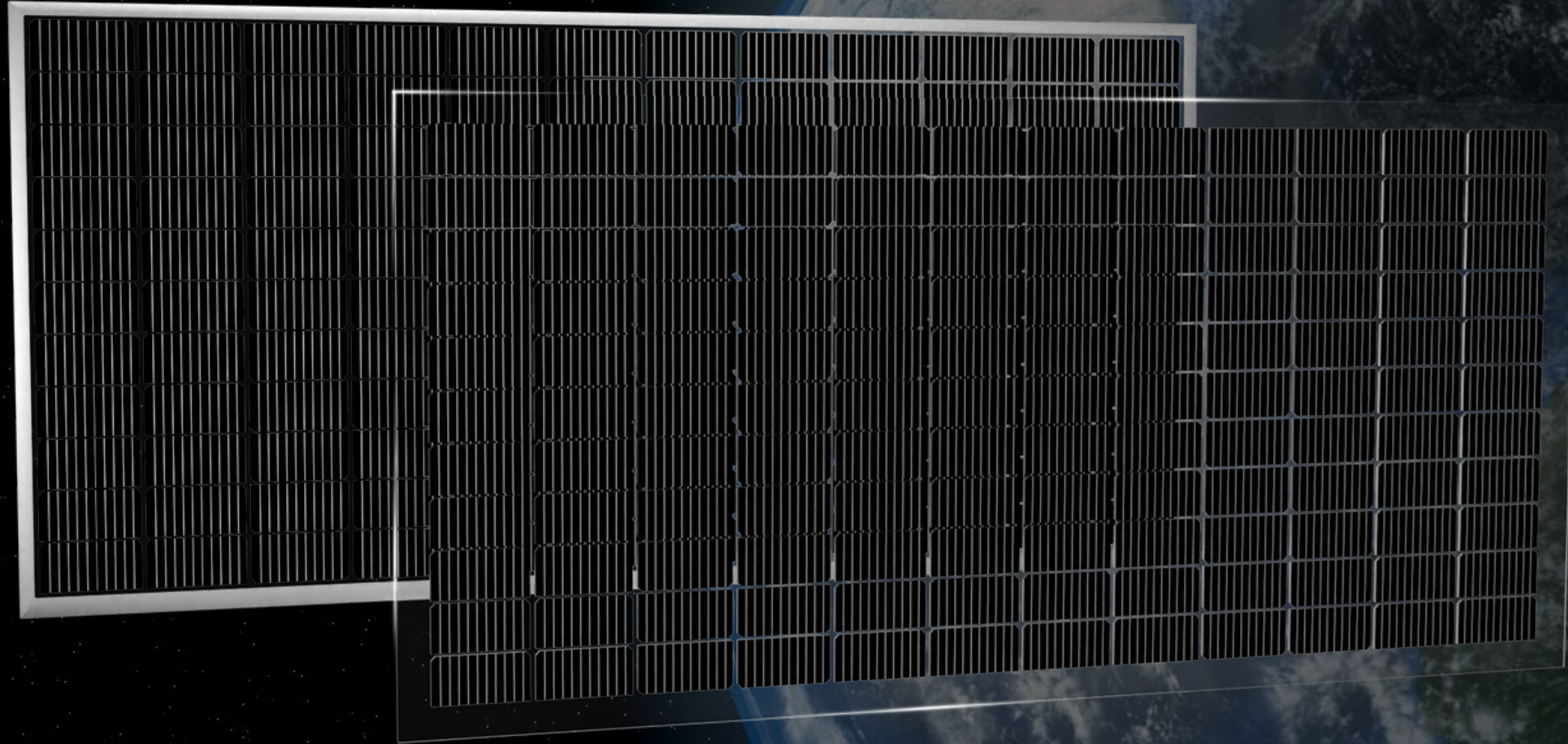
30
years
Performance
Guarantee

15
years
Product
Guarantee

COMET SERIES CATALOGUE

Comet 210mm cell (HJT)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
BIFACIAL DOUBLE GLASS PV MODULES			
AE580TME-110BDS	560W - 580W	2383 x 1095 x 35mm	936pcs
AE635CMD-120BDS	615W - 635W	2171 x 1302 x 35mm	864pcs
AE700CMD-132BDS	680W - 700W	2383 x 1302 x 35mm	720pcs



TERRA

495W - 505W



Deutsche
Qualität
Garantiert

HIGHEST resistance to wind and snow
bifaciality in real conditions

PROJECT REFERENCE

EUROPE



Ukraine
2018

Distributor: Ekotechnik

12 MW



Germany, Trinwillershagen
2012

Distributor: TK-Gruppe Paderborn

11.5 MW



Bulgaria, Sliven
2011

Distributor: Technomash

9 MW

EUROPE



**Germany, Pritzen
2016**

Distributor: Ahtos-Gruppe

10 MW



**Germany, Kodersdorf
2012**

Distributor: Reninger

7.2 MW



**UK, Ravenshorpe
2015**

Distributor: Heinzmann-Gruppe

39.8 MW

PROJECT REFERENCE

ASIA



China, Jiangsu Province
2014

Distributor: GCL

20 MW



Japan
2014

Distributor: Ms. Voabachi

12.6 MW



Vietnam
2019

Distributor: BBCO

3 MW



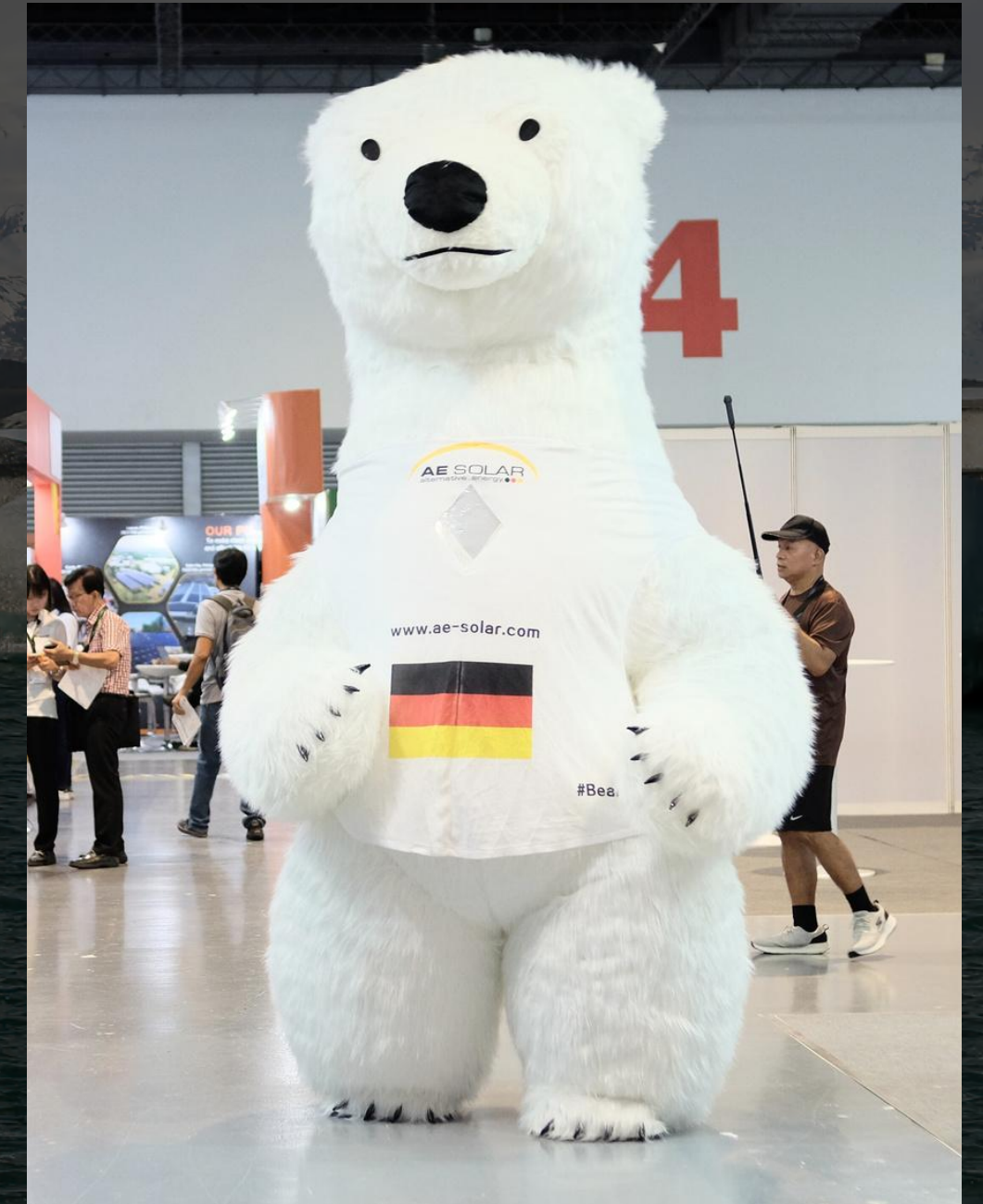
destruction of land, and a decrease in species diversity.

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 environment for a long time: global warming, rising sea levels,



CSR & ALBERT THE BEAR

AWARDS



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
Solar Future Awards 2021
Company of the Year:
Module



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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THANK YOU



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