

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 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.

Hexander Maier

Alexander Maier
CEO & Founder



OUR MISSION



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

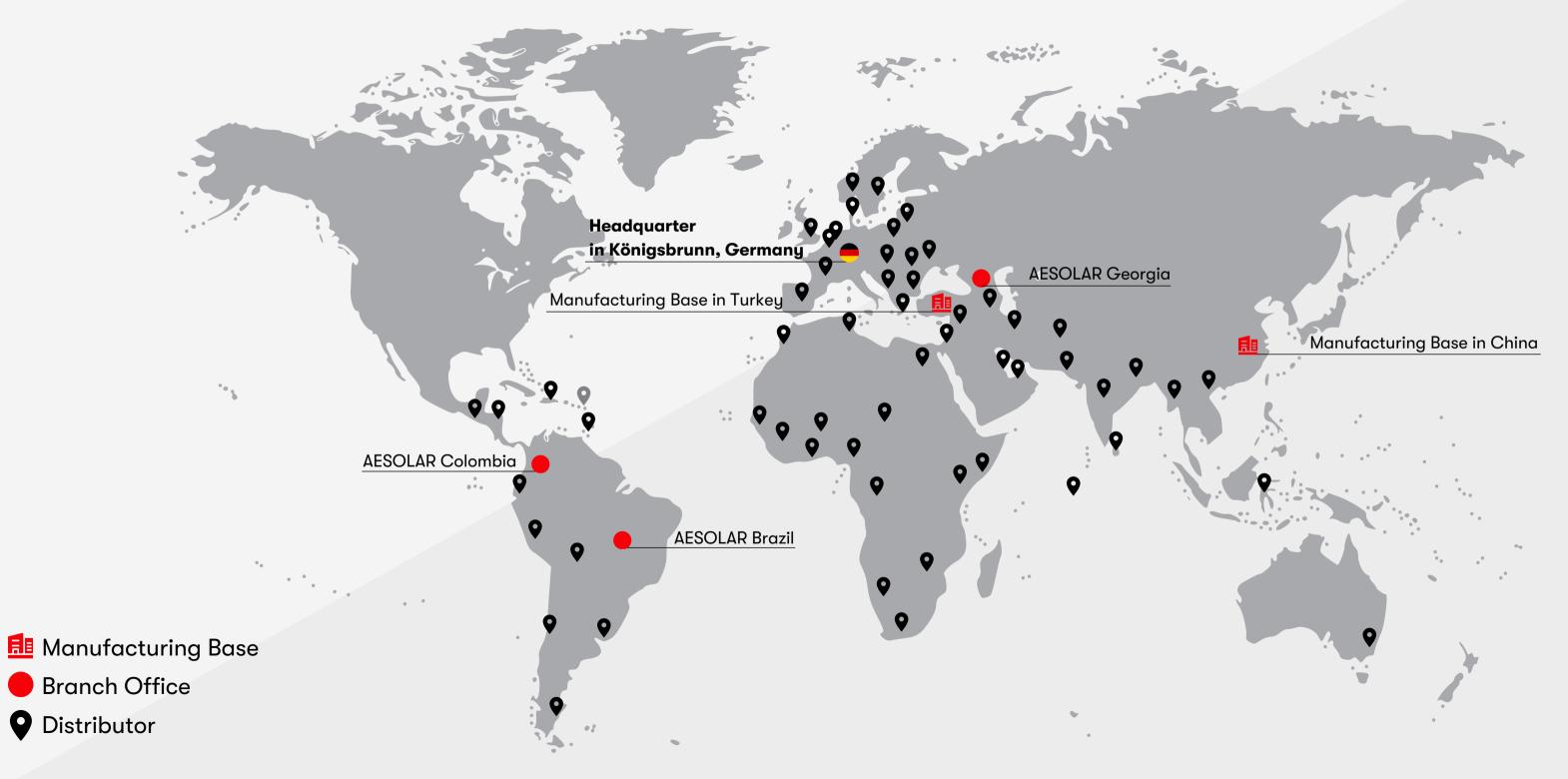
TO DEVELOP SOLAR ENERGY AROUND THE WORLD BY TOP EXPERTISE IN PV.

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



STABILITY
INNOVATION
DURABILITY & RELIABILITY

GLOBAL PRESENCE





QING MIAO







MEET

OUR TEAM

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.



OUR HISTORY







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 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

2021

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

2024

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

2022

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

2017

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









TOP MANUFACTURING

The manufacturing of AESOALR 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 CCERTIFICATION









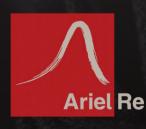
















From the production process to product quality and supply chain, AESOLAR's solar modules have complete and authoritative third-party certifications, which are sufficient for our customers and partners to have no worries.

SUPERIOR MATERIALS

Frame

Structural support for solar panel

Back cover

Protects the back of the panel

Rear encapsulation

Provides insulation and protection

Solar cells

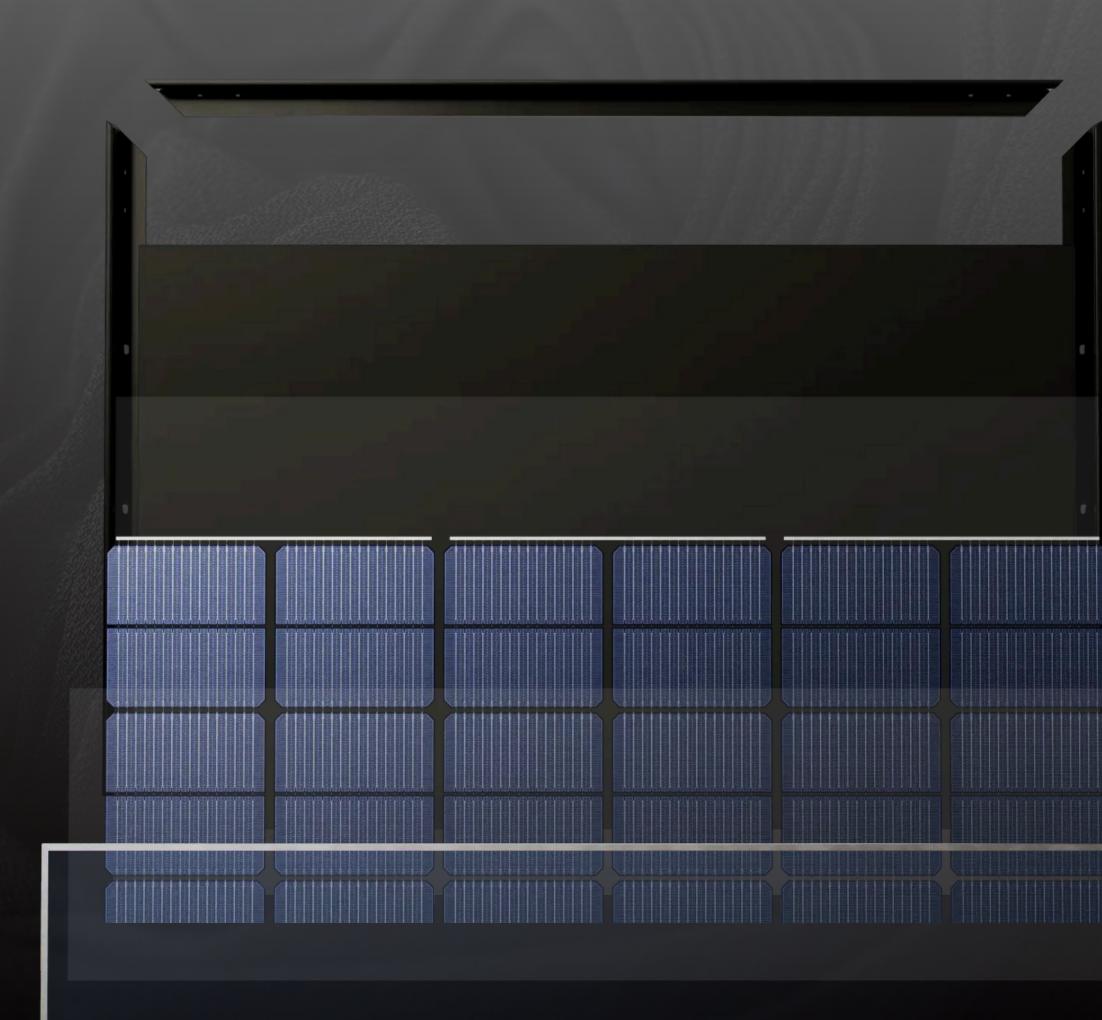
Converts sunlight into electricity

Front encapsulation

Shields solar cells and seals panel

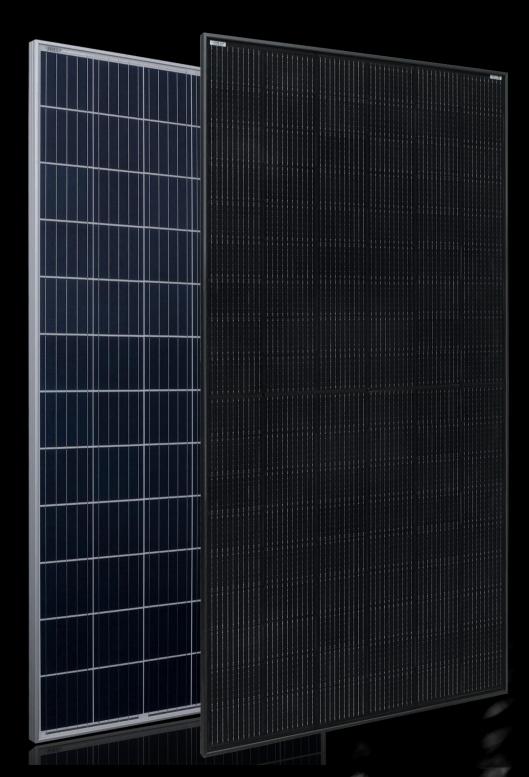
Front cover

Protects the panel from external elements











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

190W - 410W

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

30 YEARS

Performance Warranty

30 YEARS

Product Warranty

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

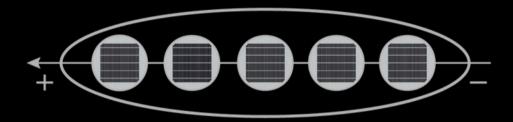
Qualität Garantiert

Deutsche

HOT-SPOT FREE TECHNOLOGY | Fraunhofer



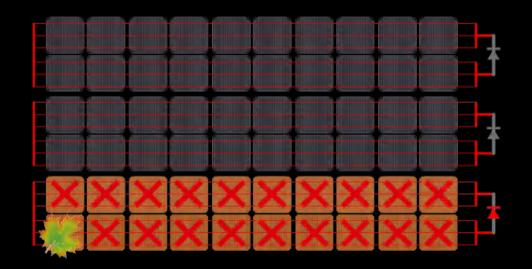
STANDARD MODULE

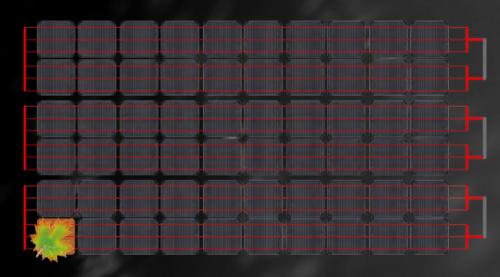


AESOLAR SMART HOT-SPOT FREE MODULE



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









Meteor

MORE POWER LESS DEGRADATION

415W - 700W

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

30 YEARS

Performance Warranty

30 YEARS

Product Warranty

Deutsche Qualität Garantiert



Meteor series catalogue

Meteor 182mm cell (TOPCon)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD	
	MONOFACIA	AL 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	
AE580CMD-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	E GLASS PV MODULES	
AE700CME-132BDS	680W - 700W	2383 x 1302 x 30mm	612pcs
	MONOFAC	IAL PV MODULE	
AE700CME-132	680W-700W	2383 x 1302 x 30mm	612pcs





Meteor series catalogue

Meteor G12R rectangular cell (TOPCon)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD	
BIFACIAL DOUBLE GLASS PV MODULES				
AE455CMER-96BDS	435W - 455W	1762 x 1133 x 30mm	936pcs	
AE620CMER-132BDS	600W - 620W	2382 x 1133 x 30mm	720pcs	
	BIFACIAL DOUBLE	GLASS PV MODULES (BI	LACK)	
AE445CMER-96BDE	425W - 445W	1762 x 1133 x 30mm	936pcs	









POWER YOUR DRIVE WITH THE SUN

395W - 575W

n-Type TOPCon PV module bifacial better light transmission

30 YEARS

Performance Warranty

30 YEARS

Product Warranty

Deutsche Qualität Garantiert



Horizon 182mm cell (TOPCon)

MODEL POWER DIMENSION 40ft HQ CONTAINER LOAD

BIFACIAL DOUBLE GLASS PV MODULES

AE575CMD-144BDS 555W - 575W 2278 x 1133 x 30mm 720pcs

AE435CMD-120BDS 465W - 485W 1721 x 1133 x 30mm 936pcs

Horizon 182mm cell (PERC)

 MODEL
 POWER
 DIMENSION
 40ft HQ CONTAINER LOAD

 BIFACIAL DOUBLE GLASS PV MODULES

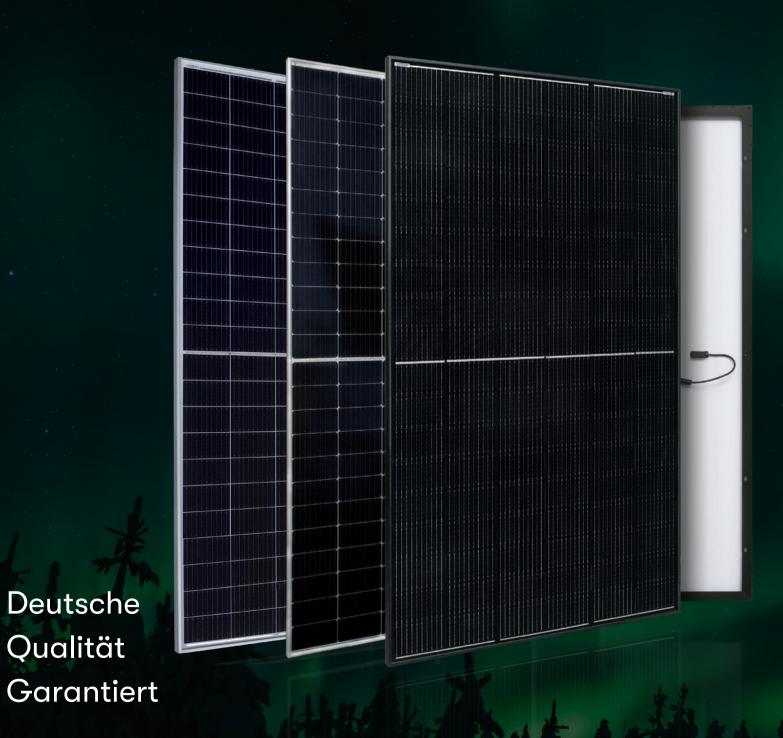
 AE550MD-144BD
 530W - 550W
 2278 x 1133 x 30mm
 720pcs

 AE415MD-108BD
 395W - 415W
 1721 x 1133 x 30mm
 936pcs









Murora Aurora

HIGH ENERGY YIELD FLEXIBILITY DURABILITY

335W - 660W

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

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	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 DO	UBLE GLASS PV MODULE	:S	
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	
	MONOF	ACIAL 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	
	MONOFACIA	AL 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
		MONOF	ACIAL PV MODULES	
AE3	80MC-120	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE4	50MC-144	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
		MONOFACIA	AL PV MODULES (BLACK)	
AE38	80MC-120E	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE4	50MC-144E	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
		BIFACIAL SIN	GLE GLASS PV MODULE	S
AE38	OMC-120BS	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE45	50MC-144BS	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs
BIFACIAL DOUBLE GLASS PV MODULES				
AE38	OMC-120BD	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs
AE45	0MC-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	



Application Scenarios





MD-108/108E

415W 1721×1133×30 mm Monofacial



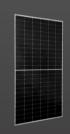
MD-120

460W 1902×1133×30 mm Monofacial



MD-132

505W 2094×1133×30 mm Monofacial



MD-144

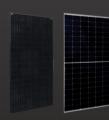
555W 2278×1133×30 mm Monofacial



ME-132

660W 2383×1302×30 mm Monofacial





CMD-108BDE / BDS

440W / 450W 1721×1133×30 mm Monofacial / Bifacial



CMD-120BDS

485W 1902×1133×30 mm Monofacial / Bifacial



CMD-144BDS

590W 2278×1133×30 mm Monofacial / Bifacial



CME-132BDS

700W 2383×1302×30 mm Monofacial / Bifacial



CMER-96BDE / BDS

445W 1762×1133×30 mm **Bifacial**



615W 2382×1133×30 mm Bifacial



CMER-132BDS





Utility

Residential



Midium-scale C&I









(Comet

ENRICH YOUR ENERGY YIELD

630W - 720W

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

30 YEARS

Performance Warranty

30 YEARS

Product Warranty

Deutsche Qualität Garantiert



Comet series catalogue

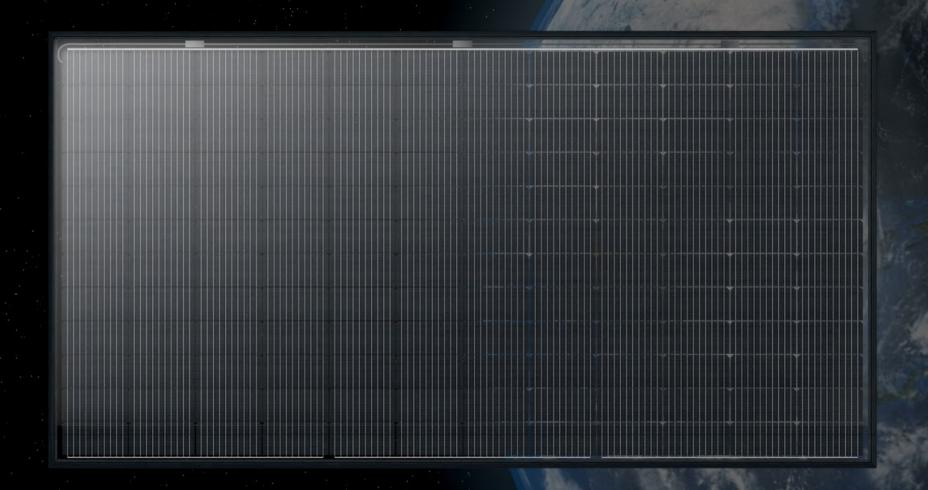
Comet 210mm cell (HJT)

MODEL **POWER DIMENSION 40ft HQ CONTAINER LOAD BIFACIAL DOUBLE GLASS PV MODULES** 864pcs AE635TME-120BDS 630W - 650W 2171 x 1302 x 35mm 2383 x 1302 x 35mm AE700TME-132BDS 700W - 720W 720pcs











30 YEARS

Performance Warranty

UP TO 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 DOL	JBLE GLASS PV MODULES	
CMD-L144BD	560W - 580W	1190 × 2282 × 30 mm	648pcs
CMD-L132BD	505W - 525W	1098 × 2282 × 30 mm	720pcs



EUROPE



UK, Ravenshorpe 2015

Distributor: Heinzmann-Gruppe

39.8 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



Italy, Bologna 2013

Distributor: Municipality

4.5 MW

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



Brazil

2023

Distributor: Grupo Kyly

503.2 KW



destruction of land, and a decrease in species diversity.

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 LALBERT THE BEAR

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.

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 Exellence 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 Photovotaics Award Finalist



2018

PV Magazine 2018 Top Innovation Award



2017

SNEC 2017 PV Power Expo Top 10 Highlights Award



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