

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 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



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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

OUR MISSION

DURABILITY & RELIABILITY

GLOBAL PRESENCE



MEET OUR TEAM

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.

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WALDEMAR HARTMANN **GLOBAL SALES DIRECTOR**







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.

OUR HISTORY



AESOLAR

DEVELOPMENT MILESTONES

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

2009

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

2017

2021

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

2003

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

2016

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

• 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.



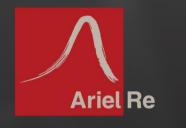




TOP MANUFACTURING

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





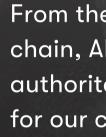




MOS

CERTIFIED





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.







TEST - CERTIFICATION PHOTOVOLTAÏQUE

Deutsches Institut für **Bautechnik**



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

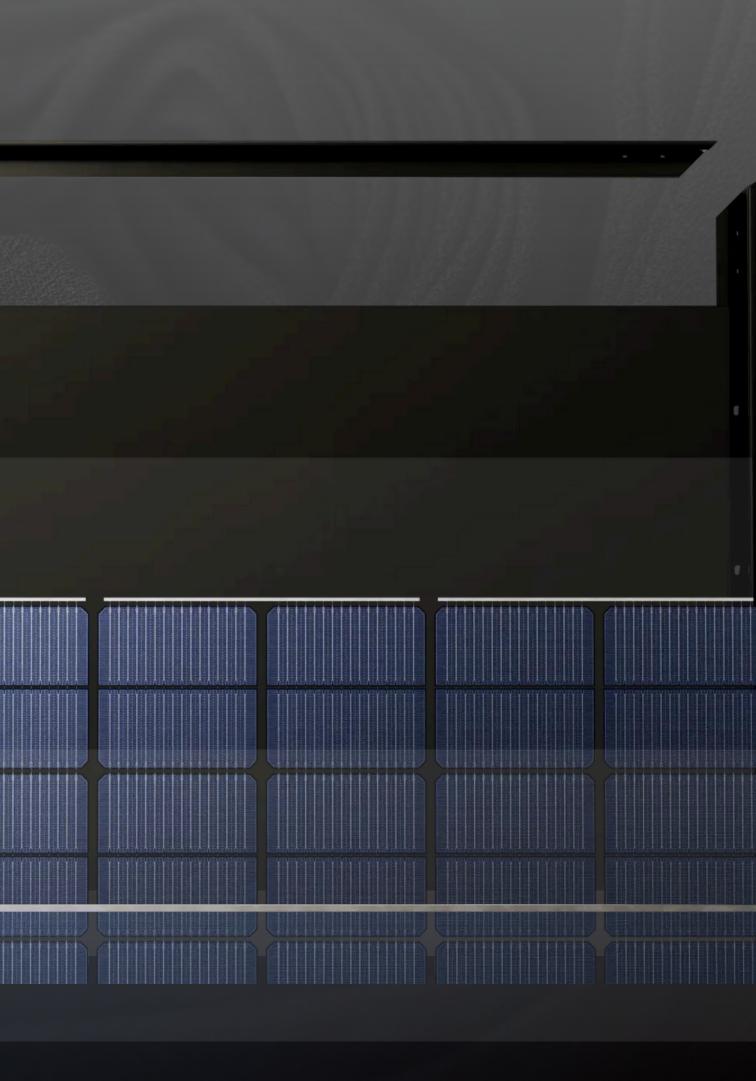
Converts sunlight into electricity

Front encapsulation

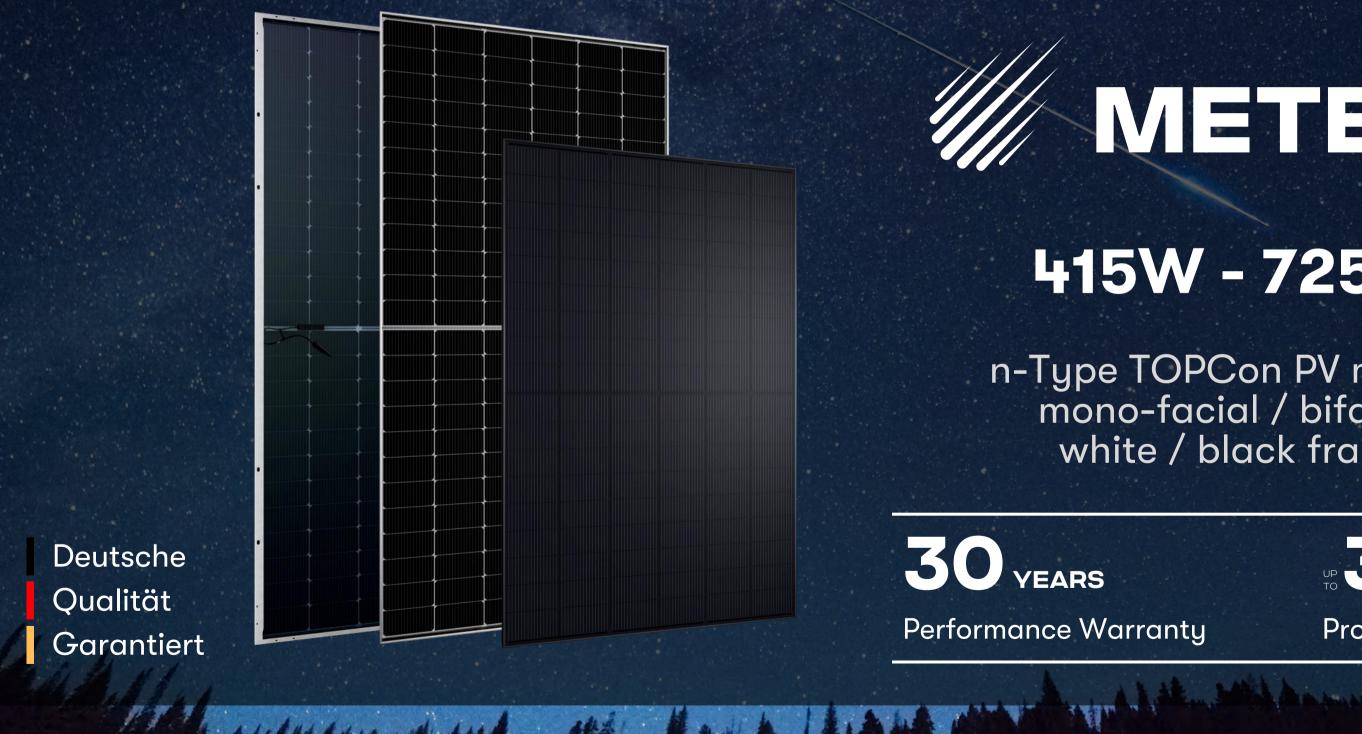
Shields solar cells and seals panel

Front cover

Protects the panel from external elements











METEOR

415W - 725W

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



Product Warranty

METEOR series catalogue

METE	OR 182MN	I CELL (TOP	CON)		METE	OR 210MN	Л CELL (ТОР	CON)
MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD		MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
	MONOFACI	AL PV MODULES				BIFACIAL DOUBLI	E GLASS PV MODULES	
AE440CMD-108	420W - 440W	1721 x 1133 x 30mm	936pcs		AE725CME-132BDS	705W - 725W	2383 x 1302 x 30mm	648pcs
AE485CMD-120	465W - 485W	1902 x 1133 x 30mm	864pcs			MONOFAC	IAL PV MODULE	
AE580CMD-144	570W - 590W	2278 x 1133 x 30mm	720pcs		AE725CME-132	705W - 725W	2383 x 1302 x 30mm	648pcs
		/ 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					
BIFA	ACIAL DOUBLE GLA	ASS PV MODULES (BLA	СК)					
AE435CMD-108BDE	415W - 435W	1721 x 1133 x 30mm	936pcs					AN A MAR
				Start Relation				





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					









Deutsche Qualität Garantiert

30 YEARS

Performance Warranty

13

Deutsches Institut für Bautechnik



DIBt

DESIGNED FOR CARPORTS

415W - 435W

n-Type TOPCon PV module bifacial better light transmission



TIER BloombergNEF

Product Warranty

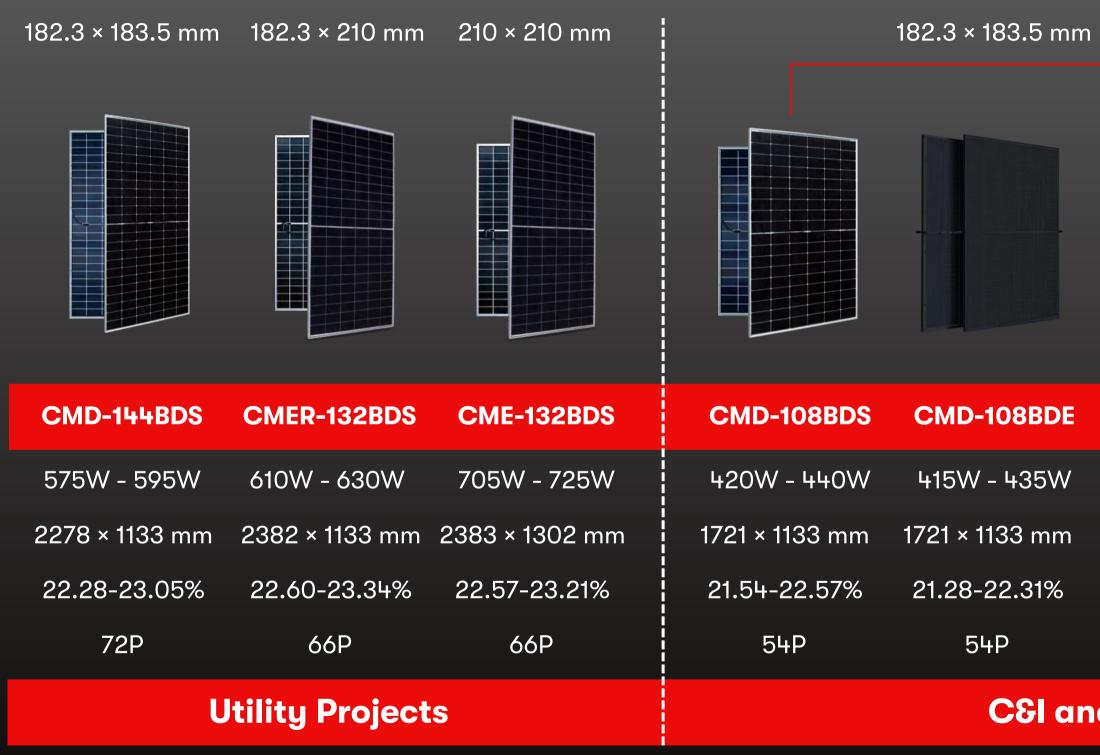
HORIZON series catalogue

Horizon 182mm cell (TOPCon)

				2	
MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD		
	BIFACIAL DOUBLE	GLASS PV MODULES			S Millie
AE435CMD-108BDS	415W - 435W	1721 x 1133 x 30mm	936pcs	-	
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AESOLAR

APPLICATION SCENARIOS



*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.



182.3 × 210 mm

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CMD-120BDS	CMER-96BDS	CMER-96BDE
475W - 495W	440W - 460W	430W - 450W
1902 × 1133 mm	1762 × 1133 mm	1762 × 1133 mm
22.04-22.97%	22.04-23.04%	21.54-22.54%
60P	48P	48P

C&I and Distributed Grid



Deutsche Qualität Garantiert

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

30_{YEARS}





MILLI AURORA

360W - 660W



AURORA series catalogue



AURORA 182MM CELL (PERC)				AU	RORA 182	2MM CELL (F	PERC)	
MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD	÷	MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
	BIFACIAL SIN	GLE GLASS PV MODULE	S			MONOF	ACIAL PV MODULES	
AE550MD-144BS	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs	*	AE415MD-108	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs
	BIFACIAL DOU	JBLE GLASS PV MODULE	S		AE460MD-120	440W - 460W	1902 x 1133 x 30mm	216pcs / 864pcs
AE415MD-108BD	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs		AE505MD-132	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs
AE460MD-120BD	440W - 460W	1902 x 1133 x 30mm	216pcs / 864pcs		AE550MD-144	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs
AE505MD-132BD	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs			MONOFACI	AL PV MODULES (BLACK)
AE550MD-144BD	530W - 550W	2278 x 1133 x 30mm	180pcs / 720pcs		AE415MD-108E	395W - 415W	1721 x 1133 x 30mm	216pcs / 936pcs
					AE505MD-132E	485W - 505W	2094 x 1133 x 30mm	180pcs / 792pcs



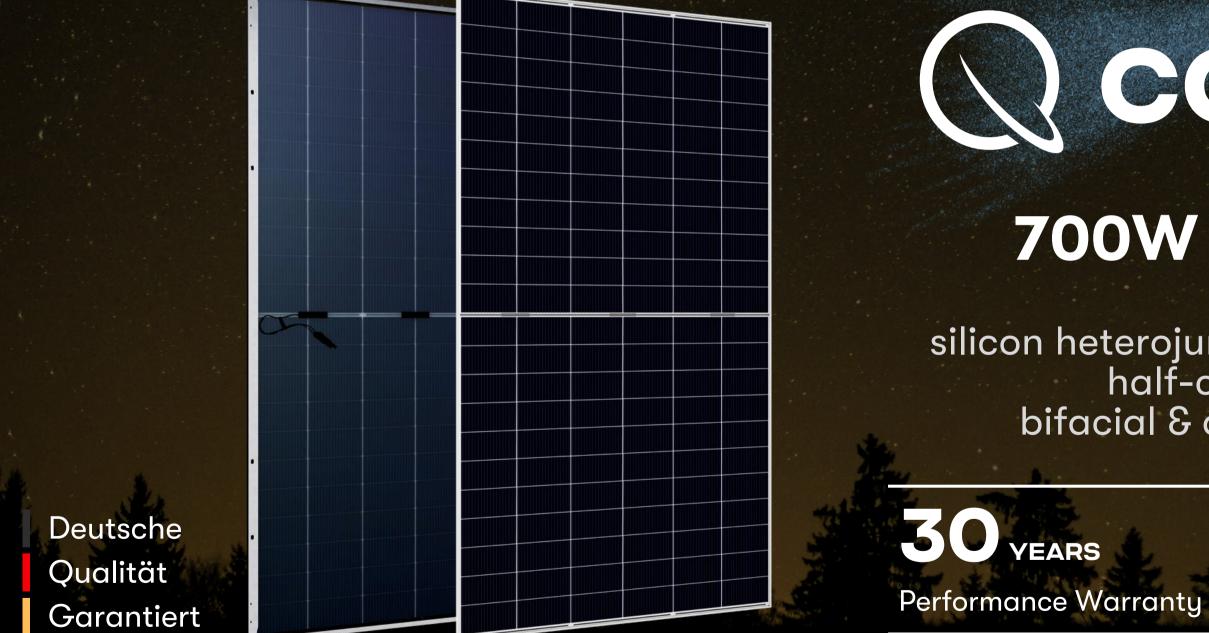
AURORA series catalogue



AU	RORA 160	A 166MM CELL (PERC)			AU	RORA 210	OMM CELL (F	PERC)
MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD	ŀ	MODEL	POWER	DIMENSION	20 / 40ft HQ CONTAINER LOAD
MONOFACIAL PV MODULES					MONOF	ACIAL PV MODULES		
AE380MC-120	360W - 380W	1754 x 1038 x 30mm	246pcs / 962pcs		AE600ME-120	580W - 600W	2171 x 1302 x 30mm	180pcs / 648pcs
AE450MC-144	430W - 450W	2094 x 1038 x 30mm	205pcs / 814pcs		AE660ME-132	640W - 660W	2383 x 1302 x 30mm	144pcs / 648pcs
BIFACIAL DOUBLE GLASS PV MODULES					BIFACIAL DO	UBLE GLASS PV MODULI	ES	
AE380MC-120BD	360W - 380W	1754 x 1038 x 30mm	216pcs / 936pcs		AE600ME-120BD	580W - 600W	2171 x 1302 x 30mm	180pcs / 648pcs
AE450MC-144BD	430W - 450W	2094 x 1038 x 30mm	180pcs / 792pcs		AE660ME-132BD	640W - 660W	2383 x 1302 x 30mm	144pcs / 648pcs









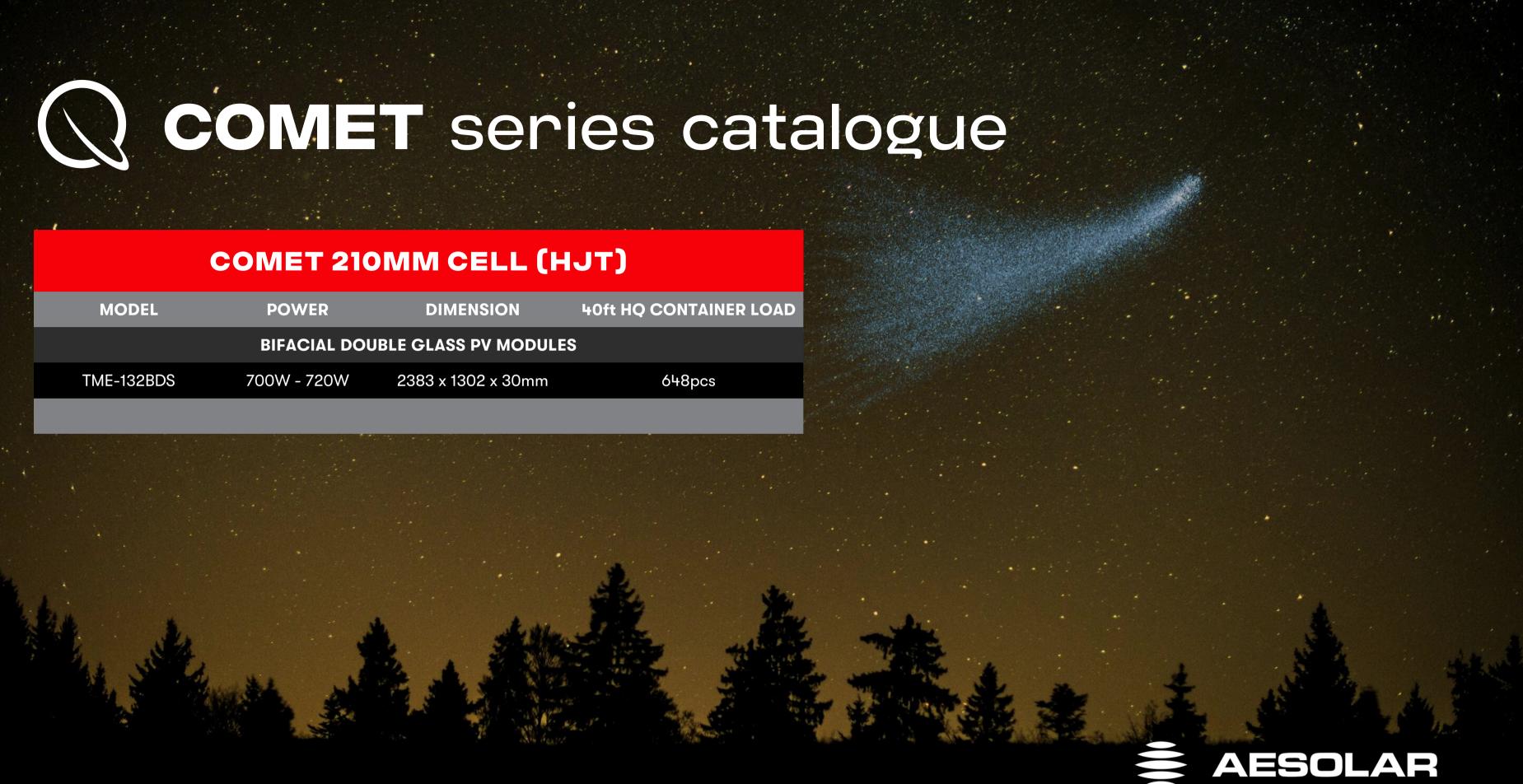
700W - 720W

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



Product Warranty

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





Terra-V

Deutsche Qualität Garantiert Terra-E





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



Performance Warranty



Product Warranty

TERRA series catalogue

TERR	A-V 182MI	M CELL (TOI	PCON)		TERR	A-E 182MI	M CELL (TO	PCON)
MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD		MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
	BIFACIAL DOUBL	E GLASS PV MODULES				BIFACIAL DOUBL	E GLASS PV MODULES	5
CMD-L144BD	560W - 580W	1190 × 2282 × 30 mm	648pcs		CMD-72BD	280W - 300W	1721 × 1133 × 30 mm	936pcs
BIFAC	CIAL DOUBLE GLAS	S PV MODULES (FRAM	ELESS)	f.	CMD-80BD	315W - 335W	1902 × 1133 × 30 mm	864pcs
CMD-L144BD	560W - 580W	1184 × 2276 × 6 mm	360pcs	1 and the	CMD-96BD	375W - 395W	2278 × 1133 × 30 mm	720pcs
				the constant of				









Deutsche Qualität Garantiert

- - durability
 - ensuring stability

30 YEARS Performance Warranty



ALPINE

STRONGER DESIGN FOR EXTREME WEATHER

420W - 595W

• Certified to endure **40mm** hailstones (HW4) • **3.2mm** tempered safety glass offering exceptional

• **T6** high-strength anodized aluminum alloy frame



Product Warranty

ALPINE series catalogue

ALPINE SERIES MODULE DETAIL (TOPCON)

MODEL	POWER	DIMENSION	40ft HQ CONTAINER LOAD
	BIFACIAL DOU	BLE GLASS PV MODULE	ES
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 (B	LACK)
CMER-96BDE-I	430W - 450W	1762 x 1133 x 30mm	936pcs
CMD-108BDE-I	420W - 440W	1721 x 1133 x 30mm	936pcs

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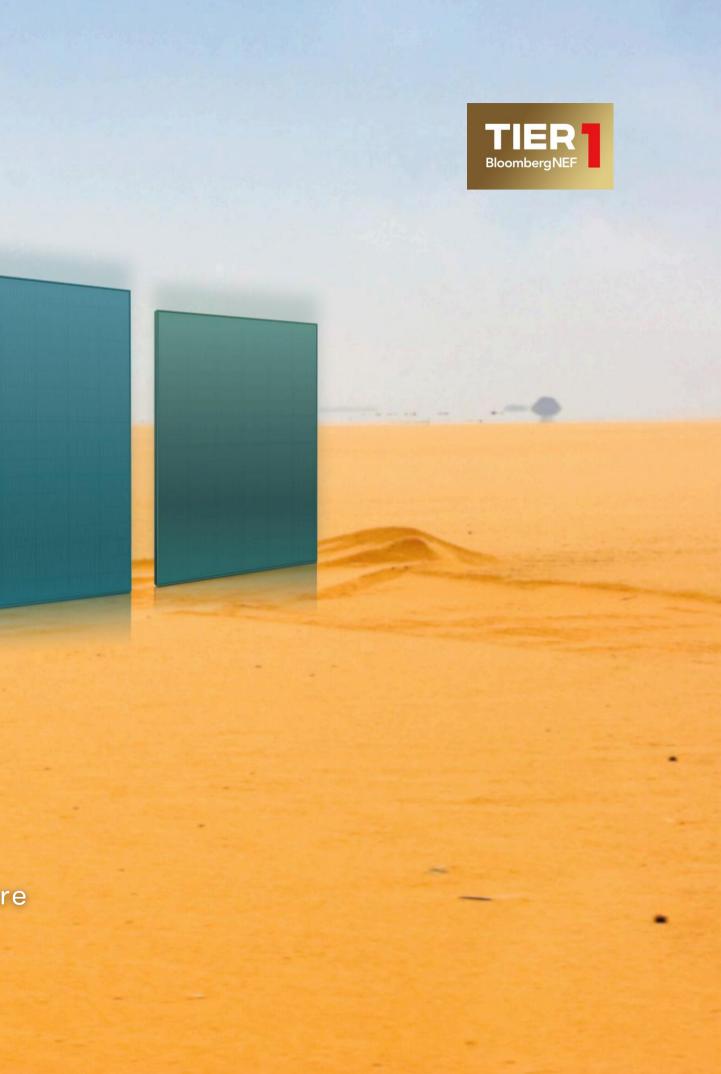
AESOLAR INVITAIC



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



Romania, Maramureș 2025

Distributor: Solar Eco Systems

30 MW



Sri Lanka, Puliyangulam 2024

Distributor: E B Creasy Solar

1.2 MW





Philippines, Nueva Era 2025

Distributor: JCE Electrofields Power System

30 MW (project ongoing)





UK, Ravenshorpe 2015

Distributor: Heinzmann-Gruppe

39.8 MW



Germany, Trinwillershagen 2012

Distributor: TK-Gruppe Paderborn

11.5 MW

PROJECT REFERENCE



Germany, Pritzen 2016

Distributor: Ahtos-Gruppe

10 MW





Slovenia, Slovenska Bistrica 2024

Distributor: Stellar

12 KW



Serbia, Smederevska Palanka 2024

Distributor: Spice Energy

1 MW

PROJECT REFERENCE



Italy, Bologna 2013

Distributor: Municipality

4.5 MW





China, Inner Mongolia 2023

Distributor: China Huaneng

20 MW



Japan 2014

Distributor: Ms. Voabachi

12.6 MW

PROJECT REFERENCE



Vietnam 2019

Distributor: BBCO



SOUTH AMERICA



Brazil, Cuiabá 2024

Distributor: TECHNO Solar Brazil

3 MW



Brazil, São João Batista 2023

Distributor: JJS Solados

518 KW

PROJECT REFERENCE



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 longstanding customers, strengthening relationships and driving innovation forward.













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, 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.

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



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



2022

Solar Future Awards 2022 Smart Technology Innovation of the Year



2021

Solar Energy Innovation and Business Exellence Awards (MENA)



2020 Top Design Award 2020



2019

Intersolar 2019 Photovotaics Award Finalist

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