



Green energy trading
The source is Yours.



CATALOGUE **Q1** 2025

COMPONENTS FOR
SOLAR POWER PLANTS



AEROCOMPACT®



CONTENTS

CONTENTS.....	2	TIGO.....	26
NEWS.....	2	NOARK.....	26
REVIEW.....	3	DYNESS.....	26
ST. NICHOLAS WITH GET.....	4-5	PROJOY.....	27
LEGISLATION.....	6-7	ANTIK.....	27
TRADE FAIRS.....	8-9	PYLONTECH.....	28
ENERGY STORAGE SYSTEM.....	10-11	CFE.....	28
KSTAR.....	12-15	SOLAX.....	29
CANADIANSOLAR.....	16-17	SOLINTEG.....	30
RANKING OF SOLAR PANEL MANUFACTURERS.....	18	SUNGROW.....	30
SOLAR PANELS.....	20-22	MOUNTING SYSTEM - PVP.....	31-37
CANADIAN SOLAR INVERTERS.....	23	MOUNTING SYSTEM - iFIX.....	38-43
GOODWE.....	24	CONTACT.....	44
HUAWEI.....	25		

NEWS

Dear Business Partners,

We are pleased to present you with the new edition of our catalog, where you will find not only a wide range of our products but also information about past events, invitations to trade fairs, and other updates. If you want to learn more about the new partnerships we have established over the past year or how we have expanded our service and product offerings, take a closer look at the catalog.

At the end of the year, we celebrated St. Nicholas' event in our showroom in Znojmo, where customers could see our products up close and get familiar with planned innovations for 2025.

The catalog also includes a summary of legislative updates and a list of trade fairs in the renewable energy and photovoltaic sector.

In 2025, you can meet us in person at three prestigious photovoltaic trade fairs.

At the end of last year, we became official distributors of KSTAR products. More details about the company and its products can be found in the catalog. We present solutions for both residential and commercial sectors, including battery storage systems.

Our portfolio from Canadian Solar now also includes energy storage systems and inverters. We introduce information about the new 6.2 series of panels and new inverters for commercial and industrial installations.

The catalog also provides rankings of solar panel manufac-

turers, selected module options, and an overview of solar panels in stock both in the Czech Republic and across the EU. The final section of the catalog also includes containerized and bulk orders.

On the following pages, you will find a selection of batteries, inverters, chargers, and other accessories such as disconnectors, cut-off switches, and water heating systems. Our regular portfolio includes brands such as SolaX, Pylontech, GoodWe, Dyness, CFE, and Deye.

Other sections are dedicated to mounting systems for both pitched and flat roofs. We highly recommend the iFIX system, which is simple and ideal for flat roof installations. Thanks to the planning software, projects can be designed in just a few easy steps.

We are also introducing Aerocompact products to our offering. These include structural solutions for flat roofs, ground mounting, pitched and metal roofs, and facade mounting solutions. The catalog also lists products for different types of structures.

If you want to learn more, please visit our website, social media, or sign up for our newsletters. To gain more product information, you can register on our B2B portal.

We look forward to successful cooperation and we are here for you in the field of renewable energy and photovoltaics.

The source is Yours.

Review of past activities and the year 2024



244,105
panels
sold



284
containers
sold



110 MWP
capacity



2,220
inverters
sold



1,990
battery sets
sold



storage
area
2,800 m²

Reviewing the past period and our current activities is a great opportunity to celebrate our successes and strengthen our future direction. Let's now take a look at our product sales so far.

In **January**, we participated in the Solar Energy Expo in Poland. However, transportation of panels faced challenges due to Houthi separatist attacks in the Suez Canal.

February brought new conditions for subsidies under the New Green Savings program.

In **March**, we established a new partnership with Jolywood, a Chinese company specializing in photovoltaic research, development, and production. At the same time, we hosted a SolaX training session in our Znojmo showroom.

In **April**, we opened a new office in Bulgaria and received the prestigious Diamonds of Czech Business award, ranking second in the South Moravian Region.

In **May**, we added several new products from SolaX to our portfolio. An interesting article about us was published in Komora magazine.

At the beginning of **June**, we traveled to China to establish new partnerships and meet suppliers. At the end of the month, we attended the Intersolar trade fair in Munich.

In **July**, a new law was approved, allowing farmers to start agrovoltaic projects. At the same time, companies were granted access to a new interest-free loan for photovoltaic systems under the Photovoltaic Systems with/without Storage program.

On **August 1**, the Electric Energy Data Center (EDC) launched its operations, introducing registration for electricity sharing in the new community energy system.

A major issue in **September** was the unfortunate flooding of photovoltaic installations.

In **October**, we attended the Smart Energy Forum in Prague Letňany. At the same time, Slovakia introduced the Green Solidarity grant program, aimed at supporting low-income households affected by energy poverty.

November was a major milestone for us—we signed a distribution agreement with KSTAR and became their official distributor. This was also our busiest month in terms of distribution.

At the beginning of **December**, we hosted the St. Nicholas event with Green Energy Trading in our showroom in Znojmo. Join us on the following pages to relive this unforgettable event.



Green energy trading

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Smart Energy Forum Nitra?

**Budeme tam
a tešime sa na Vás!**

**SMART FORUM
ENERGY**

**Veľtrh modernej
energetiky**

19. 3. - 20. 3. 2025

Výstavisko Agrokomples Nitra

STÁNOK M1/43

St. Nicholas with Green Energy Trading

On Friday, December 6, we hosted our St. Nicholas event in Znojmo. In a beautiful pre-Christmas atmosphere, our showroom welcomed guests with a presentation by KSTAR. Since we had residential all-in-one solutions and commercial systems on display, customers could see them firsthand.

Next came the most popular part of the day for some—a delicious meal featuring schnitzels and pasta salad. However, not everyone had room for it after enjoying the welcome treats.

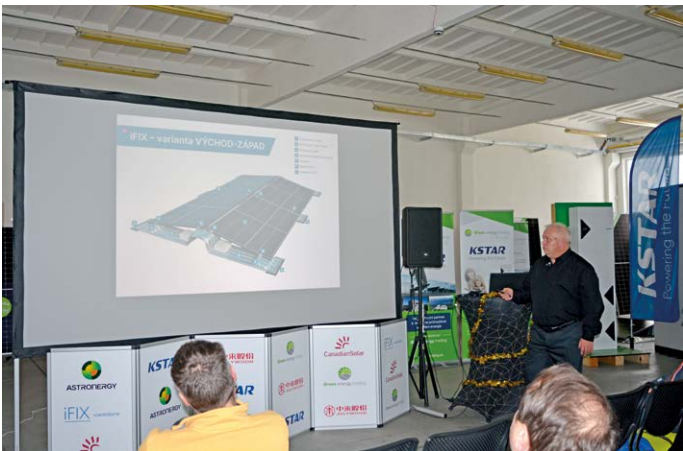
After lunch, we held a short company presentation, followed by an introduction to Astronergy, Canadian Solar, and finally, iFIX.

The event ended in style with a St. Nicholas gift-giving session, where all customers received presents under the Christmas tree.

In addition to the great experiences, everyone left with product materials and company brochures. They also had the opportunity to visit our warehouse, where stocked panels were displayed. Alongside the KSTAR systems, customers could also view iFIX structures in person.

We sincerely thank all our customers for the opportunity to meet in a friendly atmosphere and share exciting new developments.





What's New in Legislation

Agrovoltaics – the Green Energy of the Future

The term agrovoltaics refers to the integration of agricultural production and energy generation. Specifically, it involves using the same land for both photovoltaic power plants and agricultural activities, such as crop cultivation or livestock farming. Solar panels can be installed on vineyards, hop fields, or orchards.

From a legal perspective, agrovoltaics is considered an agricultural structure, which simplifies permitting processes to some extent. No zoning plan change is required for its installation in undeveloped areas unless the current zoning plan explicitly prohibits it. This opens the door for faster and easier implementation of such projects.

New Decree on Agrovoltaic Power Plants

An amendment to Act No. 334/1992 Coll., on the protection of agricultural land, effective July 1, 2024, significantly changes the conditions for installing photovoltaic power plants on agricultural land without requiring land withdrawal from the ag-

ricultural fund. This step reduces fees for land withdrawal, as it combines electricity production with agricultural activities.

This amendment is followed by the newly approved Decree No. 425/2024 Coll., on agrovoltaic power plants, which came into effect on January 1, 2025. The state regulates rules for agricultural crops and types of agrovoltaic power plants that can be installed on agricultural land for green energy production. Thanks to this decree, more than 70,000 hectares of farmland can be used simultaneously for electricity generation and farming.

Additionally, new agrovoltaic subsidies from the Modernization Fund are planned. Notably, solar panel shading positively impacts crop growth, protecting plants from excessive sunlight exposure.

The decree defines horizontal and vertical installation types and the minimum percentage of land within an agrovoltaic system that must remain usable for agriculture.

New Green Savings Program (NZÚ) – Effective February 1, 2025

The updated subsidy program for energy savings in households brings several key changes:

- Support is provided upfront before implementation
- Grid feed-in restrictions have been removed

Maximum subsidy amounts:

- Up to CZK 100,000 per property
- Up to CZK 140,000 for smart energy management & energy sharing integration
- CZK 10,000 per kWp of installed capacity
- CZK 10,000 per kWh of storage capacity (only lithium-ion batteries)
- CZK 10,000 for an EV charging station (max. 1 unit)

Eligibility criteria:

- Minimum installed power of 2 kWp
- Battery installation required (must match PV system capacity 1:1)
- Applies only to new systems (not for existing PV system expansions)
- Inverter efficiency of at least 95% (Euro efficiency)
- MPPT tracker with minimum 98% efficiency required
- Solar panels must have at least 18% efficiency (mono/polycrystalline) or 12% (thin-film amorphous)
- 5% bonus for selected municipalities as per SFŽP list

Photovoltaic Systems with/without Storage

The Ministry of Industry and Trade (MPO), in cooperation with the National Development Bank (NRB), launched a financial instrument for photovoltaic systems with/without storage in July 2024 under the Operational Program for Technology and Competitiveness Applications (OP TAK). This instrument provides subsidies covering 30% of PV system costs and 50% of energy storage costs in the form of an interest-free loan repayment waiver.

The support applies only to new installations on business buildings, including shelters, with an installed capacity

ranging from 1 kWp to 50 kWp. The following expenses are eligible for funding:

- Investment costs for the installation of a photovoltaic system, including energy storage (in the case of battery storage installation, the minimum supported usable capacity is set at 0.5 times the peak power of the connected PV system, and the maximum supported capacity is twice the installed peak power).
- Construction project documentation
- Engineering activities in construction

Loan Terms and Subsidy Amounts

Loan Amount	Max Loan Amount	Interest Rate	Loan Drawdown Period	Loan Repayment Period	Payment Deferral	Subsidy Component
CZK 500,000 to CZK 3 million	90% of the final PV system price (10% co-financing)	0 % p.a.	Up to 2 years	Up to 15 years	Up to 36 months	30% of eligible PV system costs
						50% of eligible energy storage costs

LEX OZE 3

The Senate returned the proposed amendment to the Energy Act, known as LEX OZE 3, to the Chamber of Deputies. This amendment was intended to establish rules for electricity storage, as well as the aggregation of electricity production and consumption within the framework of flexibility aggregation. The Senate demanded the removal of individual profitability control for solar power plants built in 2009 and 2010.

The amendment aims to implement the European directive for the use of energy storage, aggregation, and flexibility of renewable energy sources. Under the amendment:

The Energy Regulatory Office will be authorized to issue licenses for storing electricity in large-capacity batteries. Flexibility aggregation will combine multiple energy sources into a single group, allowing for more efficient use of renewable sources and reducing the load on the electricity grid. In addition to large-scale battery system investments, this change will create opportunities for integrating various household devices, such as heat pumps. Energy production and consumption can be adjusted based on the current needs of the grid, with financial compensation for participants.

Additional Key Provisions in LEX OZE 3

- Definition of agrovoltatics
- Simplified permitting processes for PV systems up to 100 kWp (previously 50 kWp) without the need for an ERU license and building permit – mainly benefiting medium-sized PV installations
- Improved consumer protection – Energy suppliers must publish a supplier security index, ensuring they purchase sufficient electricity and gas in advance for the next three years
- Introduction of a cap on early termination fees for fixed-price electricity contracts
- Easier permitting for battery energy storage systems (BESS)
- BESS usage for grid balancing services (SVR), allowing battery owners to generate income
- New subsidies for PV systems, energy storage, and agrovoltatics, with the European Commission approving EUR 1.9 billion in funding in mid-November

The Chamber of Deputies also approved a requirement for operators of solar power plants over 30 kW installed in 2009-2010 to annually report their profitability to the market operator and confirm whether they qualify for state support in the following year.

New Solar Subsidies in Slovakia

While Czechia has limited subsidies for photovoltaic systems under the NZÚ program as of February 2025, Slovakia has introduced new grants for small and commercial PV installations, significantly expanding the solar energy market. The Slovak Innovation and Energy Agency (SIEA) has announced new subsidies for solar power plants and energy storage on public buildings, while the Slovak Ministry of the Environment has launched a grant program for new photovoltaic power plants and renewable energy installations from the Modernization Fund.

The goal of these subsidies is to improve energy efficiency, renovate public buildings, and install renewable energy systems. The

total EU funding allocation is EUR 148,036,180. In non-Bratislava regions, grants cover up to 85% of total project costs. In the Bratislava region, grants cover up to 40% of total project costs. Projects must achieve at least 30% planned energy savings. Total project expenses must exceed EUR 201,000.

Under the Modernization Fund, applicants can receive between EUR 300,000 and EUR 50 million for renewable energy projects. The primary purpose of the Modernization Fund is to support investments in energy system modernization and efficiency improvements. Applications can be submitted until April 15, 2025.



nová

zelená

úsporám

Green Energy Trading on the Road: Trade Fairs in 2025 and Where to Meet Us

In 2025, you will have the opportunity to meet us at three prestigious trade fairs focused on presenting modern solutions and facilitating personal discussions. You can find us at Smart Energy Forum in Nitra, Intersolar in Munich, and Smart Energy Forum in Prague.

Smart Energy Forum in Nitra – March 19-20, 2025



The first stop of our trade fair season will be Smart Energy Forum in Nitra, Slovakia's largest trade fair. This event is well known for its focus on energy storage systems, photovoltaic technologies, EV charging stations, and smart energy solutions for self-sufficiency and savings.

Admission: FREE with online registration

Opening hours:

Wednesday, March 19, 2025: 9:00 AM – 5:00 PM

Thursday, March 20, 2025: 9:00 AM – 5:00 PM

Venue:

Exhibition Center Agrokomplex Nitra

Výstavná 654/4, 949 01 Nitra-Chrenová, Slovakia

GREEN:EXPO in Kyiv – April 9-10, 2025



GREEN:EXPO is a key trade fair and the only event in Ukraine that brings together leading green energy and distributed generation market players. Over 75 companies, including 9 international representatives, will participate. The fair is intended for business leaders, managers, and owners of key industries, including agriculture, construction, retail, and manufacturing, as well as renewable energy producers.

Admission: FREE with online registration

Opening hours:

Wednesday, April 9, 2025: 10:00 AM – 6:00 PM

Thursday, April 10, 2025: 10:00 AM – 4:00 PM

Venue:

ACCO International Exhibition Center

Beresteysky Avenue 40-B, 03057 Kyiv, Ukraine

Intersolar in Munich – May 7-9, 2025



The third major event we are attending is the globally recognized Intersolar Europe trade fair in Munich. This exhibition is part of The smarter E Europe – the largest platform for the energy industry in Europe.

This largest trade fair for solar energy and energy storage attracts experts from around the world. For over 30 years, it has served as a networking hub for manufacturers, suppliers, distributors, installers, service providers, project developers, planners, and start-ups – all under the motto "Connecting Solar Business".

Admission:

€34 to €85 (online registration opens at the end of January 2025)

Contact us if you need free tickets – we are happy to assist!

Opening hours:

Wednesday, May 7, 2025: 9:00 AM – 6:00 PM

Thursday, May 8, 2025: 9:00 AM – 6:00 PM

Friday, May 9, 2025: 9:00 AM – 5:00 PM

Venue:

Messe München

Messegelände, 81823 Munich, Germany

Smart Energy Forum in Prague – October 15-16, 2025



Our trade fair season will conclude with our booth at Smart Energy Forum in Prague in the fall. This trade fair is a key platform for energy professionals in Central and Eastern Europe and is especially important for our company.

Admission: FREE with online registration

Opening hours:

Wednesday, October 15, 2025: 8:30 AM – 5:00 PM

Thursday, October 16, 2025: 8:30 AM – 5:00 PM

Venue:

PVA EXPO PRAGUE

Beranových 667, 199 00 Prague 9 – Letňany, Czech Republic

We Invite You to Visit Us!

Would you like to stay up to date, meet industry experts, and learn about the latest innovations in photovoltaics? Then don't miss these events – and make sure to stop by our booth!

We would be delighted to meet you in person, discuss potential collaborations, and explore business opportunities. Each of these trade fairs offers unique opportunities for knowledge sharing, networking, and discovering new technologies.

Other Leading Photovoltaic Trade Fairs This Year:

TRADE FAIR	WEBSITE	DATE	VENUE
KEY ENERGY, IT Rimini	https://en.key-expo.com/	5.-7.3.2025	IT Rimini
Energiesparmesse Wels, AT	https://energiesparmesse.at/	7.-9.3.2025	Wels, AT
PV Symposium 2025	https://www.pv-symposium.de/	11.-13.3.2025	Bad Staffelstein, Germany
Solar Solutions, NL Amsterdam	https://en.solarsolutions.nl/	11.-13.3.2025	NL Amsterdam
PV CellTech Europe 2025	https://www.pytechconferences.com/pv-celltech-europe/	11.-12.3.2025	Frankfurt, Germany
Smart Energy Forum Nitra	https://www.smartenergyforum.sk/	19.-20.3.2025	SK Nitra
Solarplaza Summit Poland 2025	https://www.solarplaza.com/event/solarplaza-summit-poland/	26.03.2025	Warsaw, Poland
Hannover Messe 2025	https://www.hannovermesse.de/	31.3. - 4.4.2025	Hannover, Germany
NetZeroEnergy	https://netzeroenergy.pl/en	8.-10.4.2025	Poznań, Poland
GREEN:EXPO	https://www.greenexpo.com.ua/	9.-10.4.2025	Kyjev, Ukrajina
COSTRUMA	https://construma.hu/en	9.-13.4.2025	HU Budapest
Intersolar Europe 2025	https://www.intersolar.de/home	7.-9.5.2025	Munich, Germany
Lisbon Energy Summit & Exhibition	https://www.lisbonenergysummit.com/	3.-4.6.2025	Portugal Lisbon
The Battery Show Europe 2025	https://www.thebatteryshow.eu/en/home.html	3.-5.6.2025	Stuttgart, Germany
SNEC	https://pv.snec.org.cn/	11.-13.6.2025	Shanghai - China
AgriVoltaics 2025	www.agrivoltaics-conference.org/	1.-3.7.2025	Freiburg, Germany
RoEnergy Romania 2025	https://timisoara.roenergy.eu/	1.-3.10.2025	Timișoara, Romania
Smart Energy Forum Praha	https://www.smartenergyforum.cz/	15.-16.10.2025	CZ Praha
SolarSolutions, DE Düsseldorf	https://en.solarsolutionsduesseldorf.de/	3.-4.12.2025	DE Düsseldorf



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Smart energy forum?

Budeme tam...

...a těšíme se na Vás!

www.getrading.eu

**SMART FORUM
ENERGY** 

**Veletrh moderní
energetiky**

15. 10. - 16. 10. 2025

PVA EXPO PRAHA

**HALA 4
STÁNEK 50**



Canadian Solar, founded by Dr. Shawn Qu in 2001, has grown into one of the largest providers of solar photovoltaic products with 14,000 employees. They have delivered over 70 GW of solar modules to more than 160 countries. In 2021, they were rated as the most profitable manufacturer by Bloomberg New Energy Finance. They have recently started producing on-grid inverters and battery energy storage systems (BESS).

- Canadian Solar was founded in 2001 by Dr. Shawn Qu.
- It has 14,000 employees.
- Delivered over 70 GW of solar modules.
- Operates in more than 160 countries.
- Provides green energy for 16.5 million households.
- Rated as the most profitable manufacturer by Bloomberg New Energy Finance in 2021.
- Recently began producing on-grid inverters and battery energy storage systems (BESS).



KuBank - AIO battery with PCS (Power Conversion System)

- Battery 247 kWh
- AC 100kVA
- Liquid cooling
- IP54 protection
- Integrated fire protection – aerosol



SolBank 3.0

- Battery 5MWh
- Liquid cooling
- Battery 4700/4800kWh
- IP55 protection
- Integrated fire protection – aerosol



PowerBlock 3.0 With PCS (Power Conversion System)

- Battery 4.8MWh to 20+MWh
- Liquid Cooled Battery Enclosure, Forced Air PCS
- Outdoor rated NEMA 3R
- Rated AC Output Voltage: 10/22/33/34.5 kV



Dy Ness, founded in 2017, specializes in the development and manufacturing of battery systems for photovoltaics. With four manufacturing plants in China, the company employs over 500 people, with 150 specialists in research and development. Dy Ness owns over 100 patents, and its systems are used by more than 300,000 households worldwide. The company's main products include battery energy storage systems (BESS). Dy Ness focuses on LFP batteries for both grid-tied and off-grid solar power applications around the world.

- Dy Ness was founded in 2017.
- Focuses on battery systems for photovoltaics.
- Has four manufacturing plants in China.
- Employs over 500 people and 150 research and development specialists.
- Owns over 100 patents.
- Systems are used by more than 300,000 households worldwide.
- Main products include battery energy storage systems (BESS).
- Specializes in LFP batteries for global grid-tied and off-grid applications.



PowerStone

- Air cooling
- Battery 76,8kWh
- IP55 Protection
- Only battery system



DH200F AIO battery with PCS (Power Conversion System)

- Air cooling
- Battery 215kWh (in parallel connection up to 2,5MWh)
- AC 100kW
- MPPT optional
- Integrated fire protection – aerosol
- IP54 Protection



DH5000Y-C20-DC

- Liquid cooling
- Battery 5MWh
- IP55 Protection
- Only battery system

KSTAR

Founded in 1993, KSTAR is a leading brand in the fields of power electronics and new energy technologies, employing over 4,200 people and holding more than 600 patents. It specializes in critical infrastructure for data centers (UPS, batteries, precision air conditioners), modular data center solutions, PV solutions, and energy storage. According to the latest IHS Markit report, KSTAR ranked fifth in the global UPS (Uninterruptible Power Supply) market.

- Founded in 1993.
- Employs over 4,200 people.
- Owns more than 600 patents.
- Has over 630 employees in development.
- A leading brand in power electronics and new energy technologies.
- Specializes in critical infrastructure for data centers, modular solutions, PV solutions, and energy storage.
- Ranked fifth in the global UPS market according to IHS Markit.



BluePulse Series KAC50DP-BC100DE

- Battery 102kWh
- AC 50kW
- PV 50kW
- IP54 Protection
- Air Cooling



BluePulse Series KAC125D-BC233DE

- Battery 197/215/233kWh
- AC 125kW
- IP54 Protection
- Air Cooling

Potis Edge

Founded in 2015, the company focuses on the development of batteries for electric vehicles (EV), energy storage systems (ESS), and hydrogen battery systems. This year, it increased its production capacity to 31 GWh. The company holds 247 technological patents and has 3 marketing and production centers. Its research and development teams consist of more than 130 specialists. The company contributes to the establishment of technical standards in China. In 2023, it ranked among the top three in the domestic market with a capacity of 5 GWh.

- Founded in 2015.
- Develops batteries for electric vehicles, energy storage systems, and hydrogen battery systems.
- Increased production capacity to 31 GWh this year.
- Owns 247 technological patents and has 3 marketing and production centers.
- More than 130 research and development teams.
- Contributes to the establishment of technical standards in China.
- In 2023, ranked among the top three in the domestic market with a capacity of 5 GWh.



OmniCube-A – AIO solution (PV with battery)

- PV 50/75/100kW
- AC 50/105KW
- Battery 114/215kWh
- Air-cooled
- Customizable configuration MPPT, STS (Static Transfer Switch)
- IP54 protection
- Integrated fire protection – aerosol



OmniCube-L233 – AIO battery with PCS (Power Conversion System)

- Battery 233kWh
- AC 125kW
- Water-cooled
- IP54 protection
- Integrated fire protection – aerosol



Potis Bank - 3.7/5 - Containerized storage, requires PCS (Power Conversion System)

- Battery 3.7/5 MWh
- Water cooling
- Integrated fire protection – aerosol + water

We Are the Official Distributor of KSTAR.

In November of last year, we became the official distributor of KSTAR products for the Czech Republic and Slovakia! This partnership allows us to offer you high-quality products to enhance your projects. Whether you're planning commercial installations or looking for residential solutions, we are here to support you.

Founded in 1993, KSTAR is one of the leading global companies in electronics and new energy solutions. With over 4,200 employees and 630+ patents, KSTAR provides cutting-edge, highly reliable solutions. Its mission is to deliver real value to customers through smart energy solutions.

What You Can Expect from Us

- Czech-language manuals for all products
- Technical support and assistance during installation, warranty period, and even post-warranty service
- Timely delivery of your ordered products
- On-site assistance for first-time installations (for C&I solutions, a KSTAR technician will be present)

Whether you need technology for your home, business, or large-scale projects, we are here for you. Together with KSTAR, we aim to deliver reliable, innovative technology.

KSTAR products are ideal for demanding users who appreciate high-quality craftsmanship and easy installation. Thanks to premium CATL battery cells and intelligent design, KSTAR offers solutions you can rely on – both for small and large energy systems.

Our Commercial & Industrial (C&I) Solutions

- Hybrid inverter KAC50DP
- Commercial battery storage BC100DE (100 kWh) and BC197DE (197 kWh)
- Scalable storage solutions up to 1 MWh
- Key operating modes: Self-consumption, peak shaving, backup

Our Residential ALL-IN-ONE Solutions

- Asymmetrical hybrid inverter (single-phase and three-phase versions)
- Wide power range from 3.68 kW to 15 kW
- Modern, scalable batteries ranging from 5.12 kWh to 40.96 kWh with a 10,000-cycle guarantee
- Compact design (inverter, breakers, battery in one unit)

Solutions for the Residential Sector

Model	parameter
KSTAR E10KT	power 10 kW
KSTAR BluE-Pack5.1 Battery Pack 5.12kWh	capacity 5,12 kWh

SAFETY

- CATL LFP battery, stable and safe
- Triple protection: module, package, system
- IP66, outdoor installation, outside living areas

SIMPLICITY

- Modular design, can be carried and installed by one person
- Plug and play
- Quick installation in 15 minutes
- Space saving; area 0.15 m²

CONNECTIVITY

- Global cloud platform and mobile applications anytime, anywhere
- Open API, support energy Internet applications

SAVE YOUR ENERGY BILL

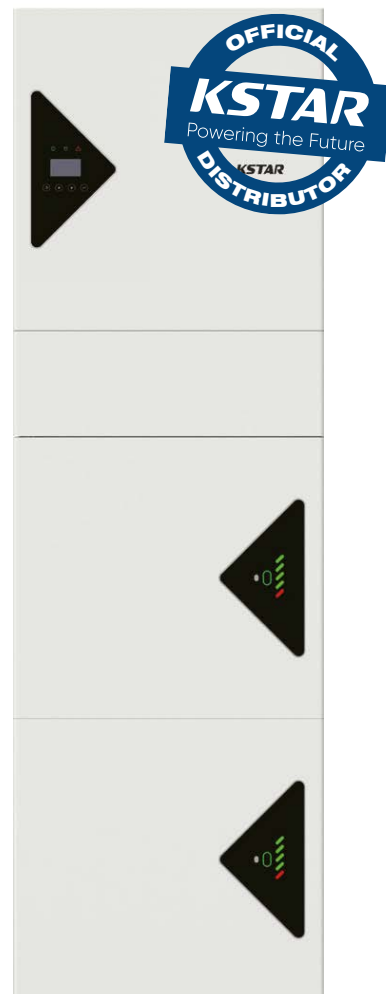
- Optimized Time-of-use Profile
- 10000 Cycles Lifespan
- VPP Ready

WHOLE HOME ENERGY SOLUTION

- Support On-grid and Off-grid Switching
- AC-coupling or DC-coupling System
- Backup Power Support

COMPREHENSIVE SAFETY

- Alarm and Protection
- Online Monitoring
- Compliant with Global Grid Standards



Solutions for the Commercial Sector

KSTAR

Powering the Future

LOXONE

**CERTIFICATION
PPDS P4 (A1+A2)**



Model	pr. code	product description
1 KAC50DP	1026G2101	Hybrid solar inverter 50 kW , AC400V, 50/60HZ, 3 MPPT
2 BC100DE	1035G0003	LFP (LiFePO4) Lithium Battery Pack With 102.4 kWh , CATL Battery cell
SET 50/100	KAC50DP	Hybrid solar inverter 50 kW , AC400V, 50/60HZ, 3 MPPT
	BC100DE	LFP (LiFePO4) Lithium Battery Pack With 102.4 kWh , CATL Battery cell
3 BC197DE	BC197DE	LFP (LiFePO4) Lithium Battery Pack With 197 kWh , CATL Battery cell
SET 100/197	2x KAC50DP	2x Hybrid solar inverter 50 kW , AC400V, 50/60HZ, 3 MPPT
	BC197DE	LFP (LiFePO4) Lithium Battery Pack With 197 kWh , CATL Battery cell

Essential Accessories:

Meter	4402-3979	3 phase AC meter YDS60-80 5A 90V-1000V ROHS
Wire 1	2098G2586	Cable connection between PCS, Battery
Wire 2	2098G2695	the wire between the battery cabinet and the battery cabinet

Optional Accessories:

9 EMS01D	1026G1438	EMS01D; PCS works in parallel under on grid application (N must >=2) Second level EMS
10 STS100D	1026G2131	STS100D; on and off grid switch
11 STS250D		STS250D; on and off grid switch
EMS Display	1099G0683	EEMPO1 KSTAR LOGO 7 inch, resolution ratio 800×480 resistive touch
KAC50DPW		Warranty extension for KAC50DP from 5 to 10 years

Product Introduction KAC50DP & BC100DE

HIGHLIGHTS:

SAFE&RELIABLE

- CATL LFP battery cell
- Double fire suppression system design
- 1+1 redundancy design

SIMPLE&USER-FRIENDLY

- Pre-installed in factory for easy installation on site
- Integrated EMS, suitable for various applications
- Effortless operation, cloud control

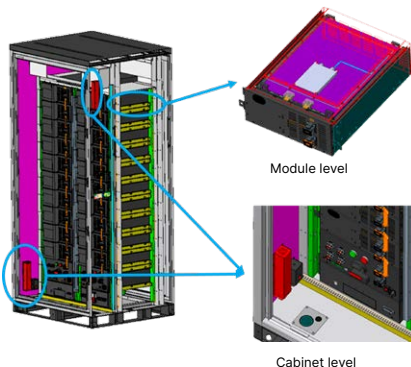


BUILT-IN EMS WITH CLOUD CONTROL INTERFACE, FITTED WITH BMS OF 1+1 REDUNDANCY DESIGN

- 1+1 redundancy design
- Better cooperation between BMS and EMS
- Quicker response with less communication distance
- Attentive protection function
- User friendly EMS design with multiple work mode
- 7 inches EMS screen with simple operation
- More reliable communication with less risks of external affects
- Provide third party communication interface for upper level monitoring and control

DOUBLE FIRE EXTINGUISHING SYSTEM

Automatic and fast response fire extinguishing system on both module and cabinet level



MODULE LEVEL

- Each module is fitted with efficient, environmentally friendly aerosol that is released when sensor detects abnormal temperature to minimize fire effects.

CABINET LEVEL

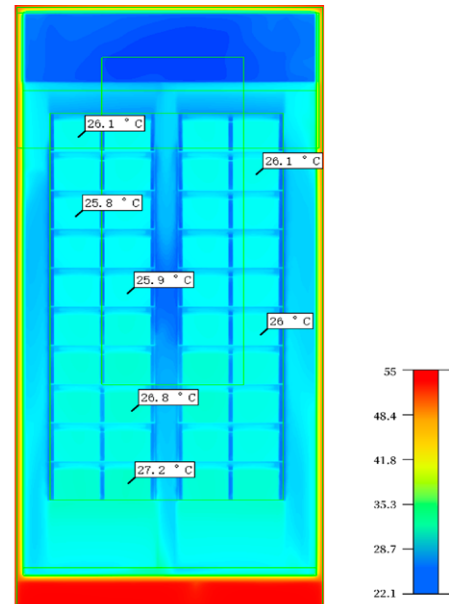
- The two corners of the battery cabinet are also placed in the aerosol, this dual fire extinguishing design makes the entire ESS safer.

BUILT-IN HVAC SYSTEM

High efficiency temperature and humidity management system for batteries' better performance

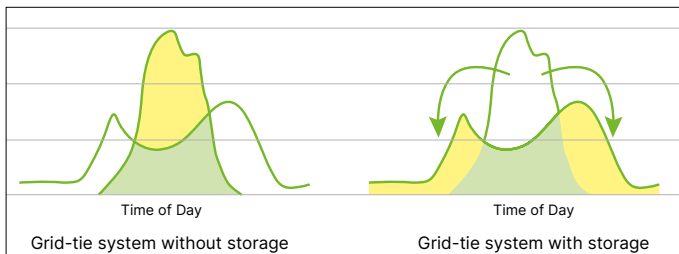


- Smart cooling with Tier 1 industrial air conditioning system
- Compact design with wall mounted
- Optimum wind path to ensure high cooling efficiency and low temperature difference (max. <math>< 5\text{ }^\circ\text{C}</math>)
- Enclosed cabinet for better HAVC performance



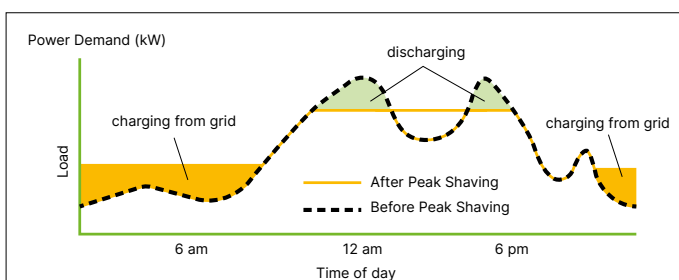
FLEXIBLE WORK MODE

Self Consumption



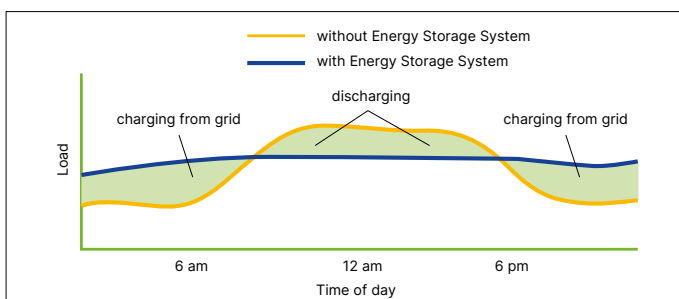
Strategy: PV generation meets the demand of the loads in priority, and the excessive PV power will be stored for later use.

Purpose: Cut electricity bill by minimizing the energy consumption from the grid.



Strategy: When the power extracted from the grid falls outside the peak/valley range, the battery starts to discharge/charge.

Purpose: Avoid extra charge caused by extreme high demand and make good use of power capacity contracted with DNO/DSO.



Strategy: Preset a time schedule for the system to charge and discharge with selectable time range and power ratings

Purpose: Make good use of electricity arbitrage to minimize the unit electricity price

ENERGY STORAGE SYSTEM



e-STORAGE

A subsidiary of Canadian Solar

e-STORAGE, a subsidiary of Canadian Solar, is a world-class energy storage solution provider, specializing in storage system design, manufacturing, and integration of battery energy storage systems for utility-scale applications.

STORAGE BLOCK ENERGY STORAGE SYSTEM

S-5016-2H-EU | S-5016-4H-EU
CAPACITY: 5.0 MWH



KEY FEATURES

Enhanced Energy Density

- Utilizes 314 Ah battery cells and compact integration, increases single container energy density up to 45%
- Reduces land cost by up to 35% in a 100MWh project

Intelligent Control

- Liquid cooling cuts auxiliary consumption up to 30%
- Active balance and string-level management, guarantee high efficiency and availability

Compatibility & Installation

- Supports various PCS topologies
- Turn-key integration and stationery certification, reduce project schedule risks by up to 40%
- Plug-and-play setup for streamlined commissioning

STRING INVERTER



THREE PHASE STRING INVERTER 50 & 100 kW

10 WARRANTY,
EXTENSION UP TO
20 YEARS

CSI Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for commercial and industrial rooftop applications. CSI inverters are easy to configure and have a high conversion efficiency of 98.7% to provide high yield and significant BoS savings. With a wide operating range of 200-1000 VDC and multiple MPPTs, they are the ideal choice for maximum energy harvesting.

HIGH RELIABILITY

- Intelligent cooling technology
- SPD Type II for DC and AC
- Residual current monitoring

KEY FEATURES (50 kW)

- Maximum efficiency of 98.7%
- Maximum EU efficiency of 98.3%
- Multiple MPPTs design for complex application scenarios



- 32A MPPTs support multiple high-power modules
- Integrated DC switch
- Smart string monitoring
- Supports aluminum cable
- Integrated AFCI function
- DC reverse polarity protection

BROAD ADAPTABILITY

- IP66 protection for harsh environments
- Wide MPPT range for flexible string sizing
- Utility interactive controls: Active power derating, reactive power control, and over frequency derating

Canadian Solar CS6.2 Series: A New Innovation in Solar Panels



Canadian Solar introduces the new CS6.2 series, the successor to CS6.1. Explore this new technology with us! Green Energy Trading is the exclusive distributor of this innovation in the Czech Republic.

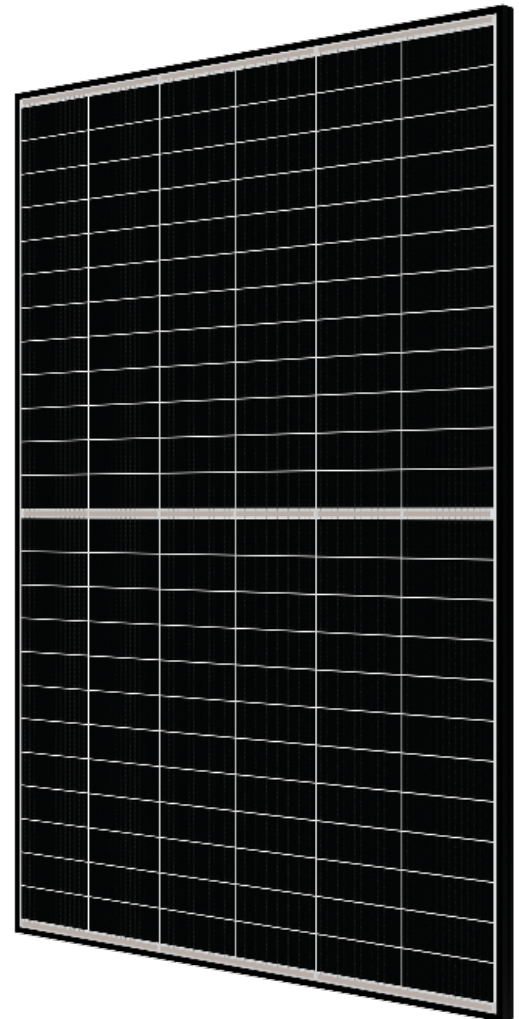
The Canadian Solar 6.2 series brings numerous advantages. Thanks to a different stringing method than before, these panels have a lower current below 11 A, ensuring compatibility with 99.5% of all inverters and optimizers. The higher voltage is also optimal for water heating applications.

Another improvement is the thicker glass, while still keeping the weight below 25 kg, resulting in higher resistance to snow and wind loads—up to 6000 Pa for snow and 4000 Pa for wind. Additionally, the panels have been tested for hail resistance with 35 mm hailstones to meet the IEC 61215 standard.

Canadian Solar offers an extended product warranty for this new panel series—a basic 15-year warranty, which extends to 25 years for residential rooftop installations. The performance warranty is 30 years.

Thanks to these enhancements, the CS6.2 product line has become the number one choice among insurers and represents a significant advancement for users.

The table below shows the differences between the CS6.1 and CS6.2 series for 450 Wp panels. Both types are available in stock in Znojmo and ready for immediate pickup, along with other panels listed on pages 16-17.



COMPARISON: CS6.1 VS. CS6.2 SERIES

	TOPHiKu6 CS6.1-54TD	TOPHiKu6 CS6.2-48TD
Power Output	450 Wp	450 Wp
Type	Glass-Glass	Glass-Glass
Number of Cells	108	144
Dimensions	1800 × 1134 × 30 mm	1762 × 1134 × 30 mm
Open Circuit Voltage (Voc)	38.9 V	52.9 V
Short Circuit Current (Isc)	14.55 A	10.68 A
Efficiency	22,0 %	22,5 %
Glass Thickness	1,6 mm	2 mm
Basic Warranty (for non-residential rooftops)	12 years	15 years
Snow/Wind Load	5400 Pa/2400 Pa	6000 Pa/4000 Pa

Rankings of Panel Manufacturers by Shipments in GW

We offer products from leading photovoltaic companies that hold a significant market share. All the listed solar panel brands meet the strict criteria of Bloomberg New Energy Finance (BNEF) and are classified as Tier 1. This means they have been in the market for at least 5 years, are financially stable, publicly traded, manufacture their own products in-house, and supply panels for large-scale projects.

The table below ranks manufacturers by production capacity in GW. **Astronergy** consistently holds 6th place with 40.2 GW, followed by Canadian Solar with 31 GW, while Risen completes the top 10 with 20 GW.

We also offer solar panels from **Jolywood** and **Phono Solar**, companies that are expanding their brands internationally.

For example, **Astronergy**, founded in 2006, is a pioneer in n-type TOPCon modules. In just one quarter of 2024, it shipped over 10 GW and is expected to lead with annual deliveries exceeding 30 GW—surpassing Canadian Solar and Risen.

Canadian Solar has been in the global top 10 for solar module shipments for 14 consecutive years and was ranked 2nd in 2015 and 2017. Currently, the company is shifting its focus to overseas markets and energy storage, which has become more profitable than solar module manufacturing. We offer not only their solar panels but also inverters.

Jolywood is a Chinese company founded in 2008. As a state-owned high-tech enterprise, it specializes in the research, development, and manufacturing of photovoltaic products. Jolywood is also the largest supplier of back sheets, which many top manufacturers use in their products.

As a global leader in photovoltaic materials, **Jolywood** has a production capacity of 320 million square meters per year and has delivered over 260 GW of total output.

Risen Energy Co., Ltd., founded in 1986, is one of the pioneers in the solar industry. The company is known for its innovative approach, focusing on R&D and high-performance modules.

Rank	Manufacturer	GW Shipments
1	Jinko	90+
2	JA solar	75-80
3	Trina solar	70-75
4	Longi	70-75
5	TW Solar	48-50
6	Astronergy	40,2
7	Canadian Solar	30,9-31,4
8	GCL	22-23
9	DASolar	22-23
10	Risen	19-20

Risen Energy operates a highly automated production infrastructure, with a 23 GW capacity for cell and module production. The company is expanding globally, with offices and sales networks in Europe, the USA, Australia, and Japan. With a capacity of 19 GW, Risen is among the top five solar panel manufacturers worldwide and holds a Tier 1 „AAA“ credit rating.

PHONO is a leading global provider of solar products and services. It is part of the SUMEC Group, a subsidiary of China National Machinery Industry Corporation Ltd (Sinomach), a Fortune 500 company.

Driven by technological innovation and branding strategies, **PHONO** has built a strong reputation and customer base on the global market. It is known for outstanding product quality and professional, differentiated services.

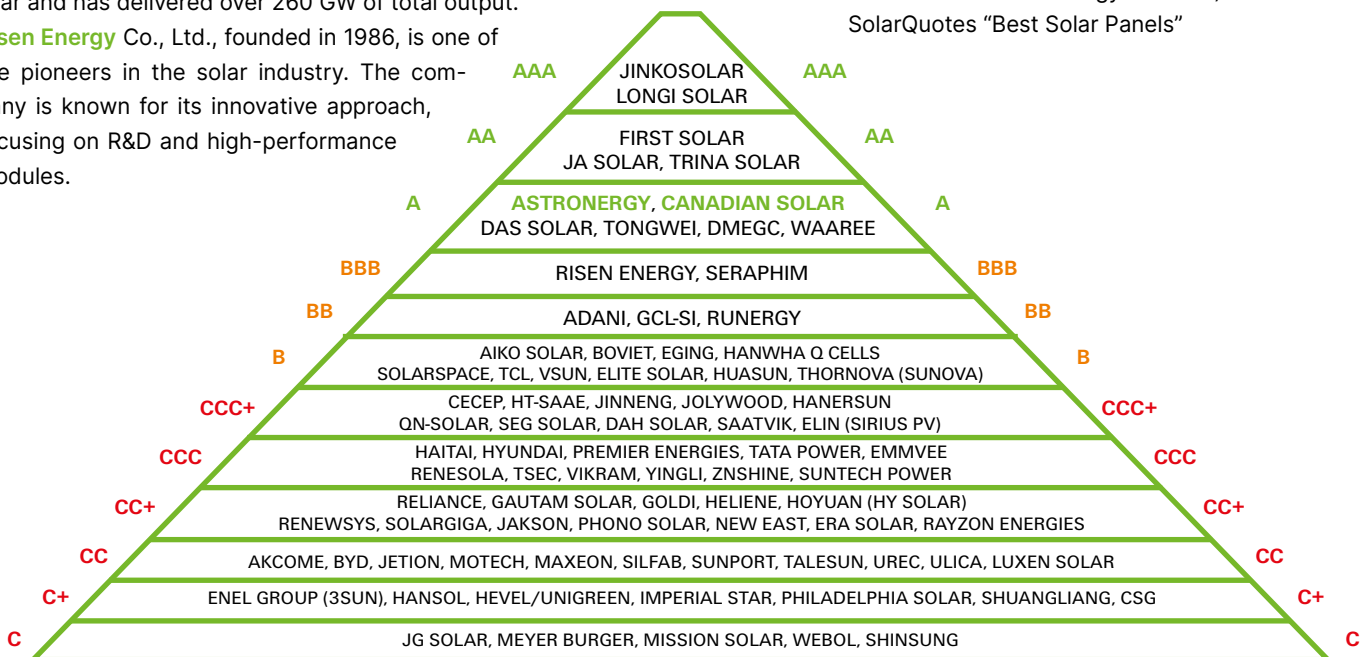
Since 2014, **PHONO** has been classified as a Tier 1 manufacturer by BNEF and has received multiple awards, including:

PVEL Top Performer

EUPD Research's Top Brand PV

Australian CER (Clean Energy Reviews)

SolarQuotes "Best Solar Panels"



PV MODULETECH BANKABILITY RATINGS QUARTERLY Q4/25



JW-HD108N-R3

J-TOPCon
Technology

n-type Bifacial Dual-Glass **Transparent Black** Module



10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation



Higher Reliability

Adopted Jolywood latest J-TOPCon2.0 technology,
No polysilicon wrap around, Full electrical isolation,
Zero leakage current; Much Safer for roof



Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days



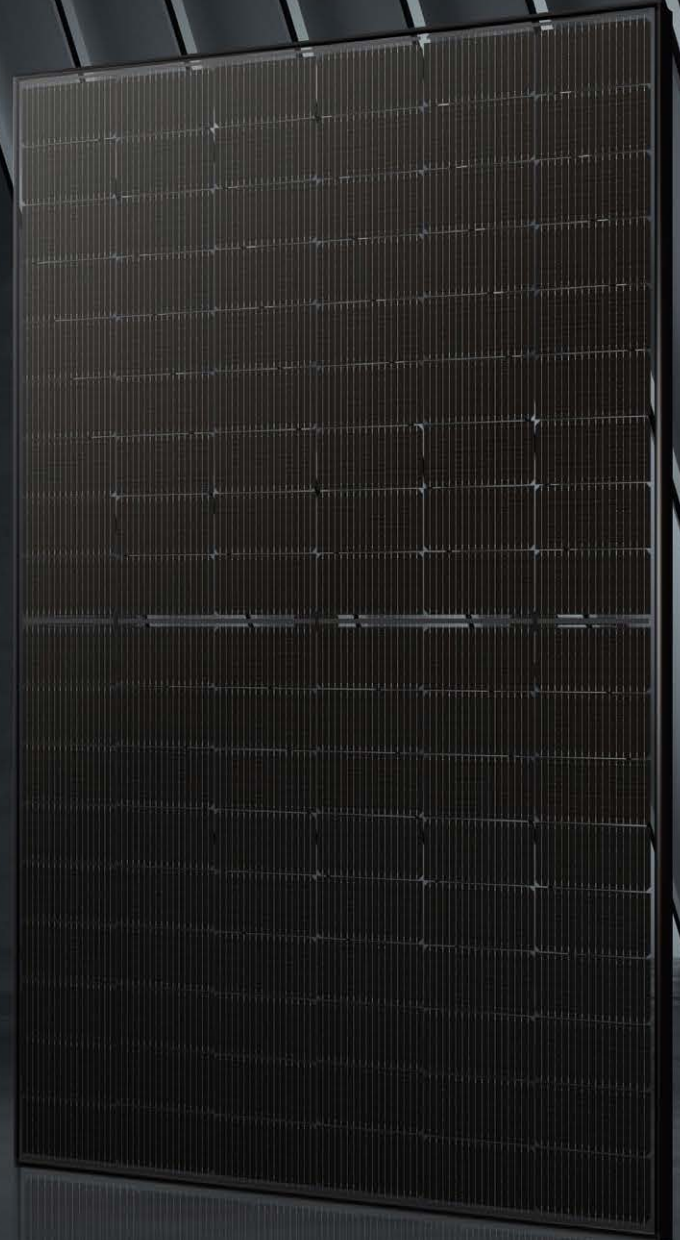
Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology



Outstanding visual appearance









Designed with aesthetics in mind, thinner wires that appear all black at a distance






Jolywood Delivers Reliable Performance Over Time

- Leader of N-type bifacial manufacturer
- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability
- BNEF Tier One

type

	Canadian Solar CS6.2-48TD-450 BF TOPCon black frame double glass
	450 Wp 22,50% N-type 144 cells 1762×1134×30 mm 24,6 kg 25/30 years 36 pcs./pal. 936 pcs./cont.
	Canadian Solar CS6.2-48TD-450 FB TOPCon Full black double glass NEW yearly availability
	450 Wp 22,50 % N-type 144 cells 1762×1134×30 mm 24,6 kg 25/30 years 36 pcs./pal. 936 pcs./cont.
	Jolywood JW-HD108N-R3-450 (glazed) TOPCon Full black BIFACIAL
	450 Wp 22,52% N-type 108 cells 1762×1134×30 mm (cable 1,3 m) 21,2 kg 25/30 years 36 pcs./pal. 936 pcs./cont.
	Canadian Solar CS6.2-48TD-455 BF TOPCon black frame double glass yearly availability
	455 Wp 22,80% N-type 144 cells 1762×1134×30 mm 24,6 kg 25/30 years 36 pcs./pal. 936 pcs./cont.
	Canadian Solar CS6.2-48TD-460 BF TOPCon black frame double glass yearly availability
	460 Wp 23,00% N-type 144 cells 1762×1134×30 mm 24,6 kg 25/30 years 36 pcs./pal. 936 pcs./cont.
	Canadian Solar CS6.1-60TB-505 BF TOPCon black frame BIFACIAL
	505 Wp 22,30% N-type 120 cells 1994×1134×30 mm 28,4 kg 25/30 years 35 pcs./pal. 770 pcs./cont.
	Canadian Solar CS6.1-60TB-510 BF TOPCon black frame BIFACIAL
	510 Wp 22,60% N-type 120 cells 1994×1134×30 mm 28,4 kg 25/30 years 35 pcs./pal. 770 pcs./cont.
	Canadian Solar CS6.1-60TM-510 TOPCon NEW 5/2025
	510 Wp 22,60 % N-type 120 cells 1994×1134×30 mm 23,8 kg 12/30 years 35 pcs./pal. 770 pcs./cont.
	Canadian Solar CS6.2-66TB-620 TOPCon NEW 5/2025
	620 Wp 23,00 % N-type 132 cells 2382×1134×30 mm 33,6 kg 12/30 years 36 pcs./pal. 720 pcs./cont.

type

	Amerisolar AS-7M120-HC 450Wp PERC Full black
	450 Wp 20,80% mono 120 cells 1908×1134×30mm 23,5 kg 20/30 years 36 pcs./pal. 873 pcs./cont.
	Phono Solar PS450M4H-24/TH PERC
	450 Wp 20,61% mono 144 cells 2101×1039×35 mm 25 kg 12/25 years 31 pcs./pal. 682 pcs./cont.
	Amerisolar AS-7M144-HC 550Wp PERC Full black
	550 Wp 21,25% mono 144 cells 2278×1134×30mm 27 kg 20/30 years 36 pcs./pal. 720 pcs./cont.



Trina NEG9R.25 435 PERC Full black double glass NEW
435 Wp 21,80 % N-type 108 cells 1762×1134×30 mm 21,0 kg 15/25 years 36 pcs./pal. 936 pcs./cont.
Trina NEG9R.28 440 TOPCon black frame double glass NEW
440 Wp 22,00 % N-type 144 cells 1762×1134×30 mm 21,8 kg 15/30 years 36 pcs./pal. 936 pcs./cont.
Trina NEG18R.28 495 TOPCon black frame double glass NEW
495 Wp 22,30 % N-type 108 cells 1961×1134×30 mm 23,5 kg 25/30 years 36 pcs./pal. 864 pcs./cont.
Trina NEG18R.28 500 TOPCon black frame double glass NEW
500 Wp 22,50 % N-type 108 cells 1961×1134×30 mm 23,5 kg 25/30 years 36 pcs./pal. 864 pcs./cont.



type

Aiko Neostar 1S AIKO-A440-MAH54Mb TOPCon NEW

440 Wp | 22,50 % | N-type ABC | 108 cells | 1722×1134×30 mm | 20,5 kg | 15/30 years | 36 pcs./pal. | 720 pcs./cont.



ASTRONERGY

type

Astronergy CHSM54RNs(DG)(BLH)/F-BH 440 TOPCon Full black NEW

440 Wp | 22,00 % | N-type | 108 cells | 1762×1134×30 mm | 21,5 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont.

Astronergy CHSM54RNs(DG)(BF)/F-BH 445 BF TOPCon black frame BIFACIAL

445 Wp | 22,30 % | N-type | 108 cells | 1908×1134×30 mm | 23 kg | 25/30 years | 36 pcs./pal. | 864 pcs./cont.

Astronergy CHSM54RNs(DG)(BLH)/F-BH 445 TOPCon Full black NEW

445 Wp | 22,30 % | N-type | 108 cells | 1762×1134×30 mm | 21,5 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont.



type

Canadian Solar CS6R-390MS PERC Full black

390 Wp | 20,0% | mono 108 cells | 1722×1134×30 mm | 21,3 kg | 12/25 years | 35 pcs./pal. | 910 pcs./cont.

Canadian Solar CS6R-410MS PERC black frame

410 Wp | 21,0% | mono 108 cells | 1722×1134×30 mm | 21,3 kg | 25/25 years | 35 pcs./pal. | 910 pcs./cont.

Canadian Solar CS6.2-48TD-450 BF TOPCon black frame double glass

450 Wp | 22,50% | N-type | 144 cells | 1762×1134×30 mm | 24,6 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont. yearly availability

Canadian Solar CS6.2-48TD-455 BF TOPCon black frame double glass

455 Wp | 22,80% | N-type | 144 cells | 1762×1134×30 mm | 24,6 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont. yearly availability

Canadian Solar CS6.2-48TD-460 BF TOPCon black frame double glass

460 Wp | 23,00% | N-type | 144 cells | 1762×1134×30 mm | 24,6 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont. yearly availability

Canadian Solar CS6.2-66TB-610 TOPCon BIFACIAL

610 Wp | 22,6% | N-type | 132 cells | 2382×1134×30 mm | 33,6 kg | 12/30 years | 36 pcs./pal. | 720 pcs./cont. yearly availability

Canadian Solar CS6.2-66TB-615 TOPCon BIFACIAL

615 Wp | 22,8% | N-type | 132 cells | 2382×1134×30 mm | 33,6 kg | 12/30 years | 36 pcs./pal. | 720 pcs./cont. yearly availability

Canadian Solar CS7N-705TB-AG TOPCon BIFACIAL NEW

705 Wp | 22,70 % | N-type | 132 cells | 2384×1303×33 mm | 37,8 kg | 12/30 years | 33 pcs./pal. | 594 pcs./cont.

Canadian Solar CS7N-710TB-AG TOPCon BIFACIAL NEW

710 Wp | 22,90 % | N-type | 132 cells | 2384×1303×33 mm | 37,8 kg | 12/30 years | 33 pcs./pal. | 594 pcs./cont.



type

Risen RSM110-8-540M PERC

540 Wp | 20,70 % | mono 110 cells | 2384×1096×35 mm | 29,0 kg | 12/25 years | 31 pcs./pal. | 620 pcs./cont.

Risen RSM120-8-590 BMDG PERC BIFACIAL

590 Wp | 20,80 % | mono 120 cells | 2172×1303×35 mm | 37,0 kg | 12/20 years | 31 pcs./pal. | 558 pcs./cont.



type

Jolywood JW-HD108N-R3-445 TOPCon Full black BIFACIAL NEW

445 Wp | 22,79 % | N-type | 108 cells | 1722×1134×30 mm | 24,5 kg | 25/30 years | 36 pcs./pal. | 936 pcs./cont.

Jolywood JW-HT144N-R0-595 TOPCon BIFACIAL

595 Wp | 23,00% | N-type | 144 cells | 2278×1134×29 mm (cable 0,3 m) | 29 kg | 12/30 years | 36 pcs./pal. | 720 pcs./cont.

PHONO

type

Phono Solar PS405M6H-18/BB PERC Full black

405 Wp | 20,74 % | mono 108 cells | 1722×1134×30 mm | 22,0 kg | 15/25 years | 36 pcs./pal. | 936 pcs./cont.

Phono Solar PS410M6H-18/VH PERC

410 Wp | 21,00 % | mono 108 cells | 1722×1134×30 mm | 21,5 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Phono Solar PS415M6H-18/VH PERC

415 Wp | 21,25 % | mono 108 cells | 1722×1134×30 mm | 21,5 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Phono Solar PS420M7GFH-18/VNH TOPCon black frame

420 Wp | 21,51 % | N-type | 108 cells | 1722×1134×30 mm | 24,3 kg | 15/30 years | 36 pcs./pal. | 936 pcs./cont.

LONGI

type

Longi LR5-54HIB-400 PERC Full black NEW

400 Wp | 20,50 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HIH-405 PERC black frame NEW

405 Wp | 20,70 % | 108 cells | 1722×1134×30 mm | 21,5 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HPB-405 PERC Full black NEW

405 Wp | 20,80 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 12/25 years | 36 pcs./pal. | 864 pcs./cont.

Longi LR5-54HIH-410 PERC black frame NEW

410 Wp | 21,00 % | 108 cells | 1722×1134×30 mm | 21,5 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HPH-410 PERC NEW

410 Wp | 21,00 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HPB-410 PERC Full black NEW

410 Wp | 21,00 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 12/25 years | 36 pcs./pal. | 864 pcs./cont.

Longi LR5-54HTH-410 PERC black frame NEW

410 Wp | 21,00 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 15/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HPH-420 PERC NEW

420 Wp | 21,50 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 12/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HTB-425 PERC Full black NEW

425 Wp | 21,80 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 15/25 years | 36 pcs./pal. | 936 pcs./cont.

Longi LR5-54HTB-430 PERC Full black NEW

430 Wp | 22,00 % | 108 cells | 1722×1134×30 mm | 20,8 kg | 15/25 years | 36 pcs./pal. | 936 pcs./cont.

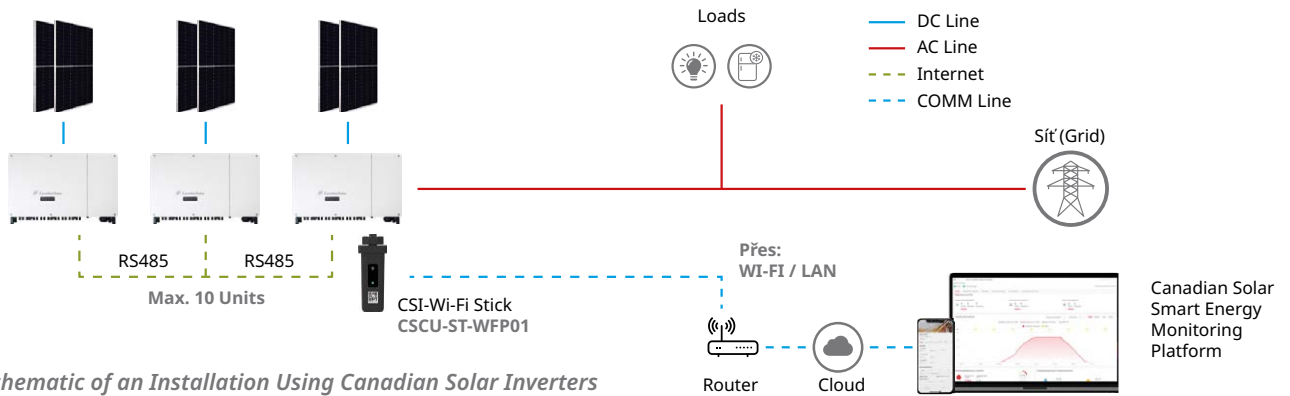
Longi LR5-72HTH-580M PERC

580 Wp | 22,5 % | mono 120 cells | 2278×1134×35 mm | 27,5 kg | 15/25 years | 31 ks/pal | 620 pcs./cont.

WIDE APPLICATION RANGE FOR C&I INSTALLATIONS

One of the most important items in a solar energy system is the inverter, which converts direct current (DC) electricity from the solar modules to alternating current (AC) as used by the grid. Covering a wide range of installation sizes, Canadian Solar inverters allow customers to benefit from numerous advantages, including:

- Maximizing energy production and grid export from the available installation area
- Fully scalable to suit all system sizes
- 100% compatible with Canadian Solar's high power solar panels for a complete system from one supplier
- Wi-Fi/LAN connections; - Online monitoring platform



System Schematic of an Installation Using Canadian Solar Inverters

TYPICAL USE

CSI 40-60K (40-60 kW)

Canadian Solar's mid-size inverter range for installations from 40 to 60 kW is ideal for industrial or commercial rooftops or ground-mounted systems.

- Retail Stores and malls
- Warehouses
- Farm buildings
- Hotels
- Small/medium-sized factories
- Agrivoltaics e.g., agricultural systems

CSI 100-120K (100-120 kW)

CSI 333-350K (333-350 kW)

The largest inverter from Canadian Solar is suitable for use on systems from 100 to 120 kW in size, fitting the market for larger scale installations on warehouses, larger agricultural applications and factories.

- Refrigerated product warehouses
- Larger farmland ground-mounted installations
- Agrivoltaics e.g., irrigation systems
- Ceramic industry
- Steel industry

meteo|control



DATALOGGER

- Supports up to 32 inverter connections
- Supports multiple communication protocols
- Supports third-party modbus device access



Nominal Power:
40/50/60 kW

- Max efficiency: 98.7 %
- Up to 5 MPPT | 32 A per MPPT
- AFCI
- DC/AC oversizing factor: 1.5
- Intelligent forced air cooling
- IP66



Nominal Power:
100/110/120 kW

- Max efficiency: 98.5 %
- 6 MPPT | 40 A or 9 MPPT | 32 A
- 16A / 20 A input versions
- AFCI
- DC/AC oversizing factor: 1.5
- Intelligent forced air cooling
- IP66



Nominal Power:
333/350 kW

- Max efficiency: 99,1 %
- 12 MPPT | 40 A nebo 16 MPPT | 32 A
- AFCI
- DC/AC oversizing factor: 1,5
- Intelligent forced air cooling
- IP66

INVERTERS

Three-phase hybrid inverters

HV

type	output
GoodWe GW5K-ET Plus+	5 kW
GoodWe GW6,5K-ET Plus+	6,5 kW
GoodWe GW6,5KN-ET Plus+	6,5 kW
GoodWe GW8K-ET Plus+	8 kW
GoodWe GW8KN-ET (16 A)	8 kW
GoodWe GW10K-ET Plus+	10 kW
GoodWe GW10KN-ET (16 A)	10 kW
GoodWe GW15K-ET	15 kW
GoodWe GW20K-ET	20 kW
GoodWe GW25K-ET	25 kW
GoodWe GW29,9K-ET	29,9 kW
GoodWe GW50K07-ETC	50 kW
GoodWe GW100K07-ETC	100 kW



Three-phase ongrid inverters

type	output
GoodWe GW10K-BT	10 kW
GoodWe GW50K07-BTC	50 kW
GoodWe GW100K07-BTC	100 kW
GoodWe GW6K-DT	6 kW
GoodWe GW8K-DT	8 kW
GoodWe GW10KT-DT	10 kW
GoodWe GW20KT-DT	20 kW
GoodWe GW25KT-DT	25 kW
GoodWe GW30K-MT	30 kW
GoodWe GW36K-MT	36 kW
GoodWe GW50K-MT	50 kW
GoodWe GW50KS-MT	50 kW
GoodWe GW60KS-MT	60 kW
GoodWe GW80K-MT	80 kW
GoodWe GW100K-HT	100 kW
GoodWe GW110K-HT	110 kW
GoodWe GW120K-HT	120 kW
GoodWe GW250KN-HT	250 kW



BATTERIES

type	capacity
GoodWe Lynx Home F - LX F9.8-H (3× LX-F3,3-H; 1× BMS - LX-H)	9,8 kWh
GoodWe Lynx Home F - LX F13.1-H (4× LX-F3,3-H; 1× BMS - LX-H)	13,1 kWh
GoodWe Lynx Home F - LX F16.4-H (5× LX-F3,3-H; 1× BMS - LX-H)	16,4 kWh
GoodWe Lynx C - LX C101-10 (11×LX C9.2-10: 38.4V 9.21kWh + BMS)	101,38 kWh
GoodWe Lynx C - LX C120-10 (13×LX C9.2-10: 38.4V 9.21kWh + BMS)	119,81 kWh
GoodWe Lynx C - LX C138-10 (15×LX C9.2-10: 38.4V 9.21kWh + BMS)	138,24 kWh
GoodWe Lynx C - LX C156-10 (17×LX C9.2-10: 38.4V 9.21kWh + BMS)	156,67 kWh



ACC.

type	
GoodWe SEC 1000 grid	
GoodWe SEC 1000 hybrid	
GoodWe WiFi/LAN dongle	
GoodWe EV charger 11 kW	11 kWh
GoodWe EV charger 22 kW	22 kWh





INVERTERS

Single-phase ongrid inverters

typ	output
Huawei SUN2000-5KTL-L1	5 kW
Huawei SUN2000-6KTL-L1	6 kW

Three-phase ongrid inverters

Huawei SUN2000-3KTL-M1	3 kW
Huawei SUN2000-3,68KTL-M1	3,68 kW
Huawei SUN2000-5KTL-M1	5 kW
Huawei SUN2000-6KTL-M1	6 kW
Huawei SUN2000-8KTL-M1	8 kW
Huawei SUN2000-10KTL-M1	10 kW
Huawei SUN2000-12KTL-M5	12 kW
Huawei SUN2000-15KTL-M5	15 kW
Huawei SUN2000-17KTL-M5	17 kW
Huawei SUN2000-20KTL-M5	20 kW
Huawei SUN2000-25KTL-M5	25 kW
Huawei SUN2000-30KTL-M3	30 kW
Huawei SUN2000-36KTL-M3	36 kW
Huawei SUN2000-40KTL-M3	40 kW
Huawei SUN2000-50KTL-M0	50 kW
Huawei SUN2000-50KTL-M3	50 kW
Huawei SUN2000-60KTL-M0	60 kW
Huawei SUN2000-100KTL-M2	100 kW
Huawei SUN2000-105KTL-H1	105 kW
Huawei SUN2000-185KTL-H1	185 kW



BAT.

typ	capacity
Huawei LUNA2000-10S0 HV	10 kWh

ACCESSORIES

typ
Huawei Smart Dongle-WLAN-FE
Huawei Smart Dongle-4G
Huawei SUN2000P-450W-P2
Huawei SUN2000P-600W-P
Huawei Smart Meter DTSU666-HV
Huawei Smart Meter DDSU666-H
Huawei Backup Box-B1 3-phase
Huawei Backup Box-B0 1-phase



SUN2000 - 100KTL-M1

- ✓ **SMART**
12-string intelligent monitoring
- ✓ **SAFE**
Installation without fuses
- ✓ **RELIABLE**
Type II overvoltage protection (DC+AC)
- ✓ **SPECIFICATIONS**
Output power: 100 kW
Number of MPPT trackers: 10
MPPT operating voltage range: 200-1000 V
Maximum efficiency: up to 98.6%



Huawei LUNA2000-10S0

- ✓ **More usable energy**
100% depth of discharge, energy optimization at the module level
- ✓ **Flexible investment**
Modular design 5 kWh, scalable from 5 to 30 kWh
- ✓ **Safe and reliable**
Lithium iron phosphate (LFP) cell
- ✓ **Easy installation**
- ✓ **Quick commissioning**
- ✓ **Perfect compatibility**



TIGO

type

Tigo CCA +TAP (Disconnection and Monitoring TS4-A-O)

Tigo TAP

Tigo TS4-A-O 700Wp (optimization, monitoring, rapid shutdown)

Tigo TS4-A-2F (rapid shutdown)

Tigo RSS (disconnection TS4-A-2F)

TS4-A-O

OPTIMIZATION | MONITORING | SAFETY

Optimization is a feature of Flex MLPE available as an integrated modular junction box (TS4-O) or as an add-on unit (TS4-A-O). It is designed to handle asymmetric string lengths, mixed orientations, or different modules. Install it in shaded areas with reduced setbacks. In addition to optimization, TS4-A-O allows module-level monitoring and rapid shutdown in compliance with NEC 2014, 2017, 2020 regulations.



- Suitable for up to 700W solar modules
- Higher optimizer performance with Predictive IV Technology (PIV)
- SINGLE optimizer with selective shading
- Includes monitoring and safety benefits
- Meets NEC requirements for rapid shutdown
- Plug-and-play optimization
- Shadow and aging resistance for maximum yield
- Works wirelessly with TAP and CCA devices
- 25-year warranty

SWITCHGEAR

type

Noark switchboard DC1 - protection class I+ II, IP65

Noark switchboard DC2 - protection class I+ II, IP65

HV

BATTERIES

type

Dyness battery HV T9637 V2

Dyness Tower 2.0 T10 s WiFi Modulem (1× BMS BDU + Wifi GEN2, 3× baterie HV T9637 V2)

Dyness Tower 2.0 T14 s WiFi Modulem (1× BMS BDU + Wifi GEN2, 4× baterie HV T9637 V2)

Dyness Tower 2.0 T17 s WiFi Modulem (1× BMS BDU + Wifi GEN2, 5× baterie HV T9637 V2)

Dyness Tower 2.0 T21 s WiFi Modulem (1×BMS BDU + Wifi GEN2, 6× baterie HV T9637 V2)



capacity

3,55 kWh

10,66 kWh

14,20 kWh

17,76 kWh

21,31 kWh

ACC.

type

Dyness BUS BOX (For parallel connection of up to 4 HV Dyness Tower batteries)

Dyness Tower BDU 2G

DISCONNECTORS

type

- Projoy PEFS-PL120S-11 (rapid shutdown - 1 input, max. 2 panels)
- Projoy PEFS-PL120S-21 (rapid shutdown - 2 input, max. 4 panels)
- Projoy PEFS-PCY-S-60 (control box - 1 input, max. 200 m)
- Projoy PEFS-PCY-S-180 (control box - 3 input, max. 200 m)
- Projoy PEFS-PCY-S-480 (control box - 8 input, max. 200 m)
- Projoy PEFS-CM-30 (cable 30m, 24V DC)



PROJOY
electric

ABOUT THE COMPANY:

Projoy is a professional electrical manufacturing company specializing in providing products such as high and low-voltage disconnect switches, DC miniature circuit breakers, rapid shutdowns, and components for energy conversion devices. Projoy was the first to emerge in the field of photovoltaic isolation switches. Through long-term market accumulation and technology, the company has developed a range of photovoltaic disconnect switches with excellent design, simple structure, strong performance, and outstanding quality. Since 2013, Projoy has been introducing products for photovoltaic switches to leading global battery manufacturers and energy storage systems. Since 2017, the company has also ventured into fire safety, introducing products for rapid shutdown. Projoy has established divisional branches in Italy, the UK, Australia, Poland, Hungary, Sweden, the Czech Republic, and other regions. It is a supplier of photovoltaic isolation switches with a full range of UL certifications.

ABOUT THE PRODUCT:

The Projoy disconnect switch is designed to ensure the safe shutdown of DC power to zero volts in case of an emergency. The shutdown can occur manually, by interrupting the power, or through a trigger that raises the ambient temperature above 85°C. The disconnect switch is compatible with all string inverters and does not affect their operation or performance in any way.

POWER HEATING

type

Antik Water Heater PWH 01 V3 3kW

The Antik Water Heater PWH 01 V3 MPPT solar inverter is designed to power heating devices. It offers an adjustable power range of 2,000 - 3,000 W, allowing for efficient direct power supply to a boiler from solar energy. This new version is an upgraded model of the successful V2, now featuring two outputs. The inverter is designed for an input voltage range of 0 to 400 V DC, considering the operating voltage of the boiler's heating element. Since the boiler operates as a purely resistive load, power is utilized from the very first watt generated.

- Optimal economic and technical solution for directly powering heating devices (boilers/accumulation tanks) from solar panel production
- Selectable inverter power from 2,000 - 3,000 W (adjustable in 50 W steps)
- Automatic switching between PV and grid, with priority given to PV heating
- Remote control via WiFi using the Antik Smart Home app
- Remote monitoring of boiler water temperature

BATTERIES

type	capacity
Pylontech BMS Force L1	
Pylontech batterie Force L1 (FL48074)	3,6 kWh
Pylontech BMS Force L2	
Pylontech batterie Force L2 (FL4874M)	3,6 kWh
Pylontech batterie US2000C – 2,4 kWh	2,4 kWh
Pylontech batterie US3000C – 3,55 kWh	3,6 kWh
Pylontech batterie US5000 – 4,8 kWh	4,8 kWh
Pylontech BMS Force H1	
Pylontech BMS Force H1 - V2	
Pylontech batterie Force H1 (FH48074)	3,6 kWh
Pylontech BMS Force H2	
Pylontech BMS Force H2 V2	
Pylontech batterie Force H2 (FH9637)	3,55 kWh
Pylontech BMS Force H3	
Pylontech batterie Force H3 (FH10050)	5,12 kWh
Pylontech BMS SC500-40S	
Pylontech BMS SC500-40S V2	
Pylontech BMS SC500A-100S	
Pylontech batterie H48050	2,4 kWh
Pylontech batterie RT12100G31	1,28 kWh
Pylontech battery cable KIT Pylontech - inverter	
Pylontech battery cable US2000/3000	
Pylontech rack	
Pylontech Bracket set frame US3000	



CFE



BATT.

type	capacity
CFE-5100 (battery, bms, wifi) LV	5,1 kWh
CFE Wall mount set	



Product Benefits

- ✓ Signal modules can be installed in parallel or in series.
- ✓ Integrated WIFI modem in each battery module helps quickly diagnose and upgrade firmware.
- ✓ Easy connection with a smart phone.

10-year warranty, 6000 cycles

INVERTERS
Three-phase ongrid inverters

type	output
SolaX X3-MIC-3K-G2	3 kW
SolaX X3-MIC-4K-G2	4 kW
SolaX X3-MIC-5K-G2	5 kW
SolaX X3-MIC-6K-G2	6 kW
SolaX X3-PRO-8K-G2	8 kW
SolaX X3-PRO-10K-G2	10 kW
SolaX X3-PRO-12K-G2	12 kW
SolaX X3-PRO-15K-G2	15 kW
SolaX X3-PRO-17K-G2	17 kW
SolaX X3-PRO-20K-G2	20 kW
SolaX X3-PRO-25K-G2	25 kW
SolaX X3-PRO-30K-G2	30 kW
SolaX X3-MGA-40K-G2, PLC	40 kW
SolaX X3-MGA-50K-G2, PLC	50 kW
SolaX X3-MGA-60K-G2, PLC	60 kW
SolaX X3-FORTH-80K, PLC	80 kW
SolaX X3-FORTH-100K, PLC	100 kW
SolaX X3-FORTH-110K, PLC	110 kW
SolaX X3-FORTH-120K, PLC	120 kW
SolaX X3-FORTH-136K-MV-O, PLC	136 kW
SolaX X3-FORTH-150K-MV-O, PLC	150 kW


Three-phase hybrid inverters

type	output
SolaX X3-Hybrid-10.0-D (G4) + Wifi + CT	10 kW
SolaX X3-Hybrid-12.0-D (G4) + Wifi + CT	12 kW
SolaX X3-Hybrid-15.0-D (G4) + Wifi + CT	15 kW
SolaX X3-ULT-15K	15 kW
SolaX X3-ULT-19.9K	19,9 kW
SolaX X3-ULT-20K	20 kW
SolaX X3-ULT-25K	25 kW
SolaX X3-ULT-30K	30 kW



CT – the set includes transformers.

HV

BATTERIES

type	capacity
SolaX T-BAT H5.8 (T58 Master) V2	5,8 kWh
SolaX HV11550 (T58 Slave) V2	5,8 kWh
SolaX MC0600 (T30 Controller)	
SolaX HV10230 (T30 battery)	3,1 kWh
SolaX T-BAT-SYS-HV-S3.6 (7,3 - 47,9 kWh)	3,6 kWh


ACCESS.

type
SolaX BMS - Parallel Box II
Solax smart meter 3F CHINT
SolaX Accessory pack for 3, 4pcs batt.


WALLBOX

type	output
SolaX X3-EVC-11K (PXH)	11 kW
SolaX X3-EVC-22K (PXH)	22 kW



INVERTERS

Three-phase hybrid inverters

type	output
Solinteg MHT-10K-25	10 kW
Solinteg MHT-15K-40	15 kW
Solinteg MHT-20K-40	20 kW
Solinteg MHT-25K-100	25 kW
Solinteg MHT-30K-100	30 kW
Solinteg MHT-36K-100	36 kW
Solinteg MHT-40K-100	40 kW
Solinteg MHT-50K-100	50 kW



HV

BATTERIES

type	capacity
Solinteg EBS-5150-BASE	
Solinteg EBS-5150-BAT	2,56 kWh
Solinteg EBS-5150-BMS	

SUNGROW

SUNGROW
Clean power for all

INVERTERS

Three-phase ongrid inverters

type	output
Sungrow SG50CX-P2	50 kW
Sungrow SG50CX-P2 V112	50 kW
Sungrow SG110-V112	110 kW
Sungrow SG125CX-P2	125 kW
Sungrow SG125CX-P2-V11	125 kW
Sungrow SG125CX-P2 V113	125 kW



Three-phase hybrid inverters

type	output
Sungrow Hybrid SH5.0RT - V112	5 kW
Sungrow Hybrid SH6.0RT - V112	6 kW
Sungrow Hybrid SH8.0RT - V112	8 kW
Sungrow Hybrid SH10.0RT - V112	10 kW



HV

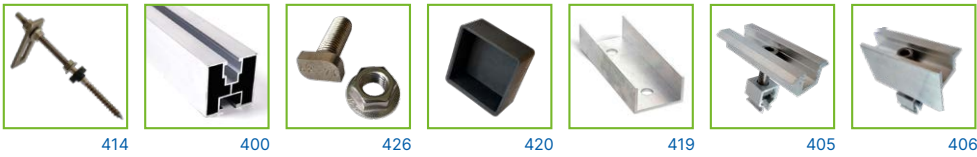
BATTERIES

type	capacity
Sungrow SBR096 batteries (3x battery panel Sungrow SBR 3,2 kW + base)	9,6 kWh
Sungrow SBR128 batteries (4x battery panel Sungrow SBR 3,2 kW + base)	12,8 kWh
Sungrow SBR160 batteries (5x battery panel Sungrow SBR 3,2 kW + base)	16 kWh
Sungrow SBR192 batteries (6x battery panel Sungrow SBR 3,2 kW + base)	19,2 kWh
Sungrow SBR224 batteries (7x battery panel Sungrow SBR 3,2 kW + base)	22,4 kWh
Sungrow SBR256 batteries (8x battery panel Sungrow SBR 3,2 kW + base)	25,6 kWh



A

METAL ROOFING TILE
(SYSTEM FOR SLOPING ROOF)



B

TRAPEZOIDAL SHEET
(SYSTEM FOR SLOPING ROOF)



C

CERAMIC TILES
(SYSTEM FOR SLOPING ROOF)



MOUNTING SYSTEM - PVP



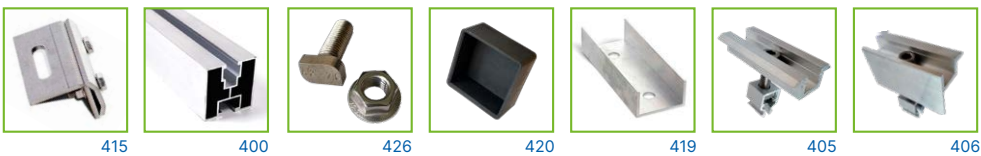
ROOFING FELT OR SHINGLES
(SYSTEM FOR SLOPING ROOF)



ROOF WITH PLAIN TILES
(SYSTEM FOR SLOPING ROOF)



SEAMED SHEET
(SYSTEM FOR SLOPING ROOF)





G

NON-INVASIVE SYSTEM 15°/30°
(SYSTEM FOR FLAT ROOF)



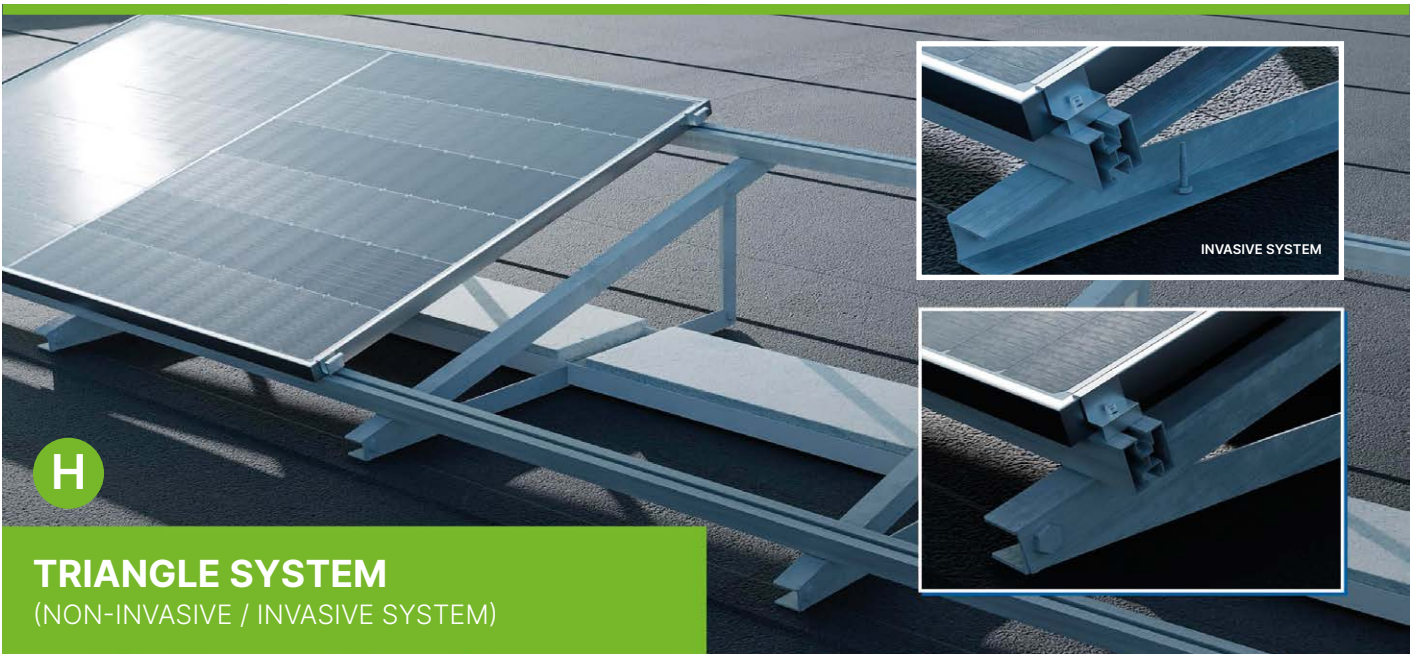
421



422



423



H

TRIANGLE SYSTEM
(NON-INVASIVE / INVASIVE SYSTEM)

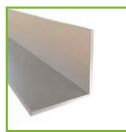
NON-INVASIVE



409 410



400



411 412



426



420



419



405



406

INVASIVE SYSTEM



409 410



400



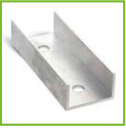
414



426



420



419



405



406

PROFILES



AL profil 40×40
– length 3,3 m



AL profil 40×40
– length 4,4 m



AL profil 40×40 black
– length 4,4 m



Trapezoidal bridge T40
height 40 mm, length 300 mm



Trapezoidal bridge T70
height 70 mm, length 330 mm

ELECTRIC



Conector MC4
set M+F



Solar cable „6“
coil 500 m
black | red

BRACKETS



Center bracket
height 35 | 40 mm, silver | black



Side bracket
height 35 | 40 mm, silver | black

TRIANGLE



Horizontal triangle (H) 15/25/35°

Vertical triangle (V) 15/25/35°



411
412

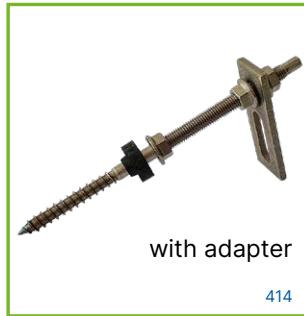
AL angle
40×40×3 mm
length 3, 4, 6 m

AL angle
40×40×4 mm
length 3, 4, 6 m

ANCHORING



roof hook
2x adjustable
stainless steel



Combination screw
M10×200
M10×300



Falt holder
for rebates up
to 3.5 mm



roof hook type „J“
stainless steel



roof hook type „B“
steel



console on prof. sheet
90×40 mm



coupling al profile
length 200 mm



Profile end cap

FLAT ROOFS



Flat roof bracket



Bracket and screw



Top connection

MONTAGE



Screw 8×80/50
Stainless Steel
100 pcs per package

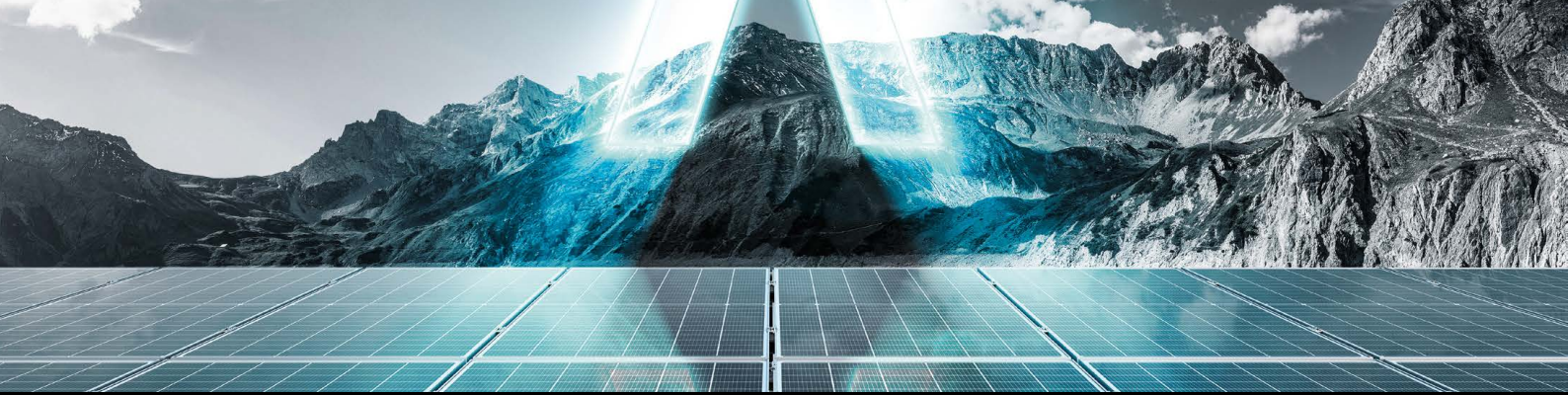


Self-tapping screw
6/25
package of 100 pcs



T-bolt + nut
M10×25





AEROCOMPACT®

COMPACTFLAT

- COMPACTFLAT S
- COMPACTFLAT S05
- COMPACTFLAT S10/S15
- COMPACTFLAT S10 PLUS
- COMPACTFLAT SN 2
- COMPACTFLAT GS
- COMPACTFLAT GS15
- COMPACTFLAT GS10 PLUS

COMPACTGROUND

- COMPACTGROUND G
- COMPACTGROUND G15/G20
- COMPACTGROUND G10 PLUS

COMPACTWALL

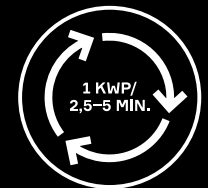
- COMPACTWALL TS/TL

COMPACTPITCH

- COMPACTPITCH
- COMPACTPITCH XW
- COMPACTPITCH XM-F
- COMPACTPITCH XT-R
- COMPACTPITCH XM-B
- COMPACTPITCH XT
- COMPACTPITCH XT-VLOW

COMPACTMETAL

- COMPACTMETAL
- COMPACTMETAL TS
- COMPACTMETAL TL
- COMPACTMETAL TM
- COMPACTMETAL TR





Mounting in landscape format (TS/TSE)

Mounting in portrait format (TL/TLE)

COMPACTWALL

FACADES

THE CHALLENGE

THE VERTICAL ALIGNMENT OF PV MODULES PRESENTS MOUNTING SYSTEMS WITH CHALLENGING TASKS. TECHNICAL DESIGNS AND SPECIAL MOUNTING CHALLENGES MUST BE TAKEN INTO ACCOUNT.

This includes compliance with building standards and fire protection guidelines, which differ from conventional roof installations. The mounting systems must guarantee optimum rear ventilation for high performance and withstand increased wind loads. Overheating and thermal expansion can lead to stresses that cause cracks in the facade and serious damage. Poor sealing allows moisture to penetrate the facade and can damage the building fabric, while the reduced yield of conventional PV roof systems in winter due to the low sun is another point in favor of installing facade systems.

THE SOLUTION

WITH COMPACTWALL TS/TL, WE ARE MAKING A STATEMENT ON THE MARKET. THE INSTALLATION SOLUTION FOR A WIDE VARIETY OF FAÇADE TYPES IMPRESSES WITH ITS HIGH COST-EFFECTIVENESS AND MAXIMUM SECURITY.

Cost-efficient, optimum fastening is achieved through the reduced use of materials with COMPACTMETAL components, while the lightweight construction significantly reduces the load on the façade. The raised rail design generates optimum cooling of the PV modules. This ensures increased performance and service life of the PV modules and prevents potential façade damage. Mounting solutions can also be offered for sandwich applications on request via our support team.



THE VARIANTS

COMPACTMETAL TL*/TLE FOR MOUNTING IN PORTRAIT FORMAT

The new, raised rail systems TLE25 and TLE38 further optimize the installation steps for portrait format alignments of PV modules on trapezoidal sheet metal façades and roofs. The reduction in product components minimizes the installation effort and simplifies the individual work steps. Thanks to the star punching in the TLE and without additional accessories for potential equalization, time and costs are reduced. Both TL and TLE variants are available in lengths of 250 mm and 380 mm.



THE COMPANY



voestalpine Automotive Components Schwäbisch Gmünd GmbH & Co. KG has stood for quality and service in forming technology for decades now. We, as a supplier to the automotive industry, have achieved a high level of technical innovation, and we are now channelling our investments into the solar industry. We develop system solutions for photovoltaics (PV), including a variety of products that are perfectly coordinated, seamlessly integrated, and can be customised to meet various needs. This is precisely what the patented iFIX system solution has stood for since 2012.



ISO 9001



ISO 14001



ISO 16949



COMPANY FACTS

- » On the photovoltaics market since 2012
- » Production in Germany
- » Quality management system certified to ISO 9001
- » Quality management system of the automotive industry certified to IATF 16949
- » Environmental management system certified to DIN EN ISO 14001

PRODUCT FACTS

- » 12-year warranty period
- » 100 % greentec steel with reduced carbon footprint from Austria (made by voestalpine Steel)
- » We work according to the current state of the art and comply with the standardised regulations of the Eurocode (EN 1991-1-3, EN 1991-1-4, EN 1993-1-4, DIN 55634-1-2)
- » Testing of required load cases by an accredited testing institute
- » Expert opinion on the determination of the static design limits
- » Wind tunnel expertise to determine the positional stability
- » Internal tests accompanied by a structural engineer on the cubicle joint effect in accordance with the guideline of the BSW (the trade association of the German solar energy industry)



ADVANTAGES OF iFIX

It couldn't be simpler! iFIX is the smart substructure for photovoltaic systems, and consists of one component instead of many different ones. With iFIX, photovoltaic modules with cables and inverters/optimisers are mounted quickly and easily on flat roofs.

Simply smart: The smart click solution enables quick mounting without tools. All necessary fixing points are already integrated. iFIX is ready to mount and does not need to be processed or cut to size. Customers confirm that iFIX can be mounted up to 50 % faster.

**50%
faster**

Smart cost-effectiveness: The innovative component design saves on logistics and distribution. Benefit from:

- » **Reduction in storage areas**
- » **Reduction in transport costs** thanks to high packing density and low weight
- » **Accurate order picking without leaving residual material on the roof** thanks to pre-cut individual parts

Smart sustainability: The innovative iFIX system is made of corrosion-resistant coated steel. The primary material and precision production are in line with voestalpine's high sustainability criteria.

EVERYTHING FIXED WITH ONE CLICK



SMART

The photovoltaic substructure consists of just one component instead of many individual parts. Mounting with a smart click solution does not require tools.



FAST

There is no need to spend time cutting to size, as everything is delivered ready for mounting. The handy parts can be quickly transported to the place of use with little effort.



VERSATILE

iFIX has a particularly large contact area, which reduces the surface loads. This also makes iFIX ideal for roofs with soft insulation material.



EASY

Attachment is so straightforward that nothing can go wrong. Simply watch the mounting video and get started. Integrated fixing points point the way, standardised module clamps make the process even easier.



ECONOMICAL

Short mounting times. Reduced logistics costs. The stackable individual parts require minimal storage space and enable precise order picking without leaving residual quantities on the roof.

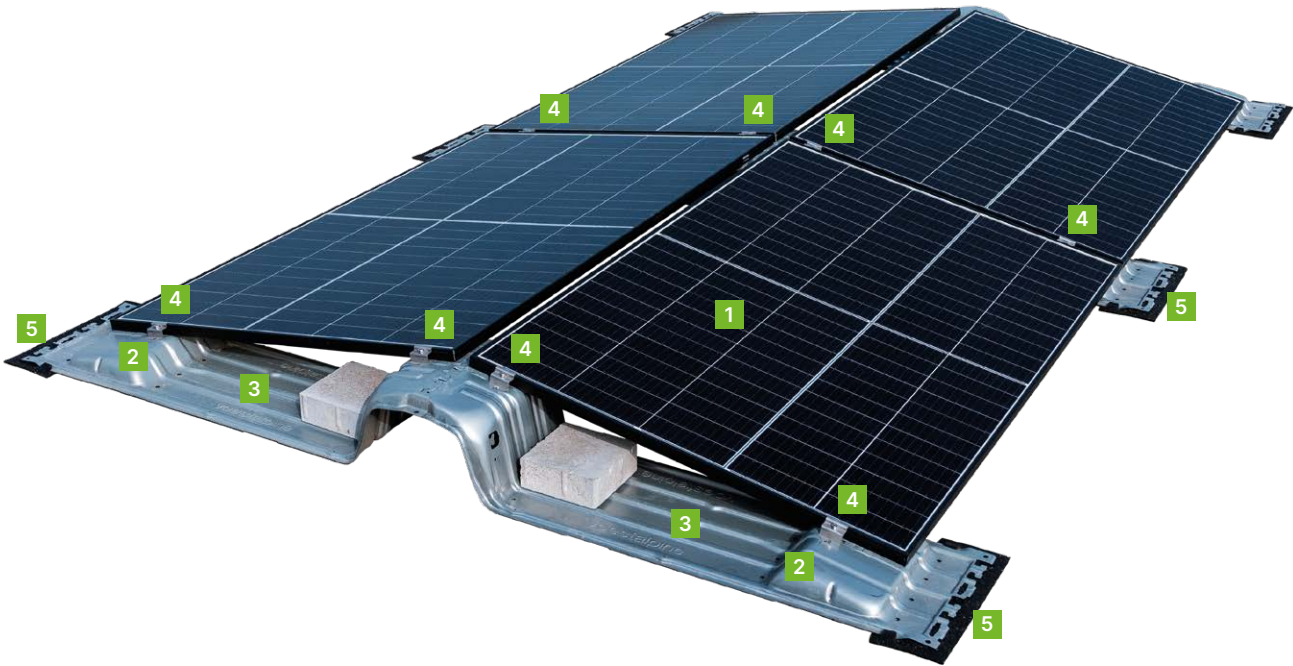


MODULAR

The use of identical parts greatly simplifies the complexity and stockkeeping. At the same time, iFIX EAST-WEST is the basis for the iFIX SOUTH system.

iFIX variant EAST-WEST

No need to worry about many different individual parts or time-consuming installation. iFIX is mounted in just a few steps. The component has all the fixing points needed for screw connection of the module. The additional parts required can be selected specifically depending on the photovoltaic module installed. All framed PV modules can be easily mounted on iFIX substructures.



iFIX variant SOUTH

iFIX S is the latest iFIX product for south orientation to maximise yield on flat roofs. It builds on the iFIX EAST-WEST click system. The familiar PV carrier plate from iFIX EAST-WEST is clicked into the new S Connector as usual. The iFIX Deflector is simply pushed in. It closes the north side and thus reduces the ballast.

- 1 Photovoltaic module
- 2 iFIX Protect / Alu-Protect
- 3 Ballast area
- 4 End and centre clamps
- 5 Protector
- 6 iFIX S Connector
- 7 iFIX S Deflector



Product overview

IFIX SUBSTRUCTURE EAST-WEST SOUTH



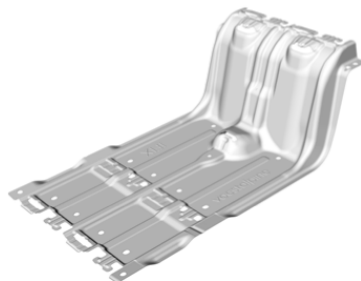
	IFIX Base	IFIX Protect	IFIX Alu-Protect
Description	Without pre-glued strips of building protection mat	With pre-glued strips of building protection mat, for roofs with solid insulation	With pre-glued, aluminium-backed strips of building protection mat, for roofs with solid insulation
Usage	iFIX OW and S	iFIX OW and S	iFIX OW and S
Product number	102211	102221	102222
Pcs. / packaging unit	150	150	150

IFIX EAST-WEST building protection mats



	Base Protect	Base Alu-Protect	Protector
Description	For roofs with soft insulation 1.015 × 430 × 6 mm	Aluminium-backed, for roofs with soft insulation 1.015 × 430 × 6 mm	Aluminium-backed, for sheet metal row ends 155 × 430 × 6 mm
Usage	iFIX OW and S	iFIX OW and S	iFIX OW and S
Product number	102131	102132	102138
Pcs. / packaging unit	300	300	100

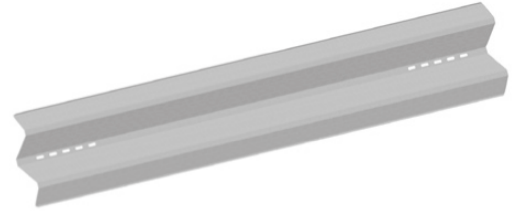
IFIX SUBSTRUCTURE SOUTH



	IFIX S Connector Extended	IFIX S Connector Compact
Description	With pre-glued, aluminium-backed strips of building protection mat	With pre-glued, aluminium-backed strips of building protection mat
Usage	Shading angle 16°	Shading angle 22°
Product number	202222	202224
Pcs. / packaging unit	150	150

Product overview

IFIX SUBSTRUCTURE SOUTH



iFIX S Deflector 1780

iFIX S Deflector 2100

Description	Wind deflector for ballast reduction	Wind deflector for ballast reduction
Usage	PV module length up to 1.780 mm	PV module length up to 2.100 mm
Product number	202205	202206
Pcs. / packaging unit	150	150

IFIX centre clamp



iFIX centre clamp

Description	For clamping between PV modules, with screw, for frame height 30–40 mm
Usage	iFIX OW and S
Product number	102152
Pcs. / packaging unit	150

IFIX end clamps



end clamp 30

end clamp 32

end clamp 35

end clamp 38

end clamp 40

For clamping PV modules at row ends, incl. screw

Description	Width: 50 mm Height: 30 mm	Width: 50 mm Height: 32 mm	Width: 50 mm Height: 35 mm	Width: 50 mm Height: 38 mm	Width: 50 mm Height: 40 mm
Usage	iFIX OW & S	iFIX OW & S	iFIX OW & S	iFIX OW & S	iFIX OW & S
Product number	102153	102154	102155	102156	102157
Pcs. / packaging unit	150	150	150	150	150

Software for planning

The intuitive software allows you to plan your PV project professionally in just a few simple and clear steps on your own PC or Mac. The iFIX tool is based on the well known Solar.Pro. Tool software solution from Levasoft GmbH.

It supports you in planning your PV project with the iFIX mounting system for optimised module assignment and mounting system design:

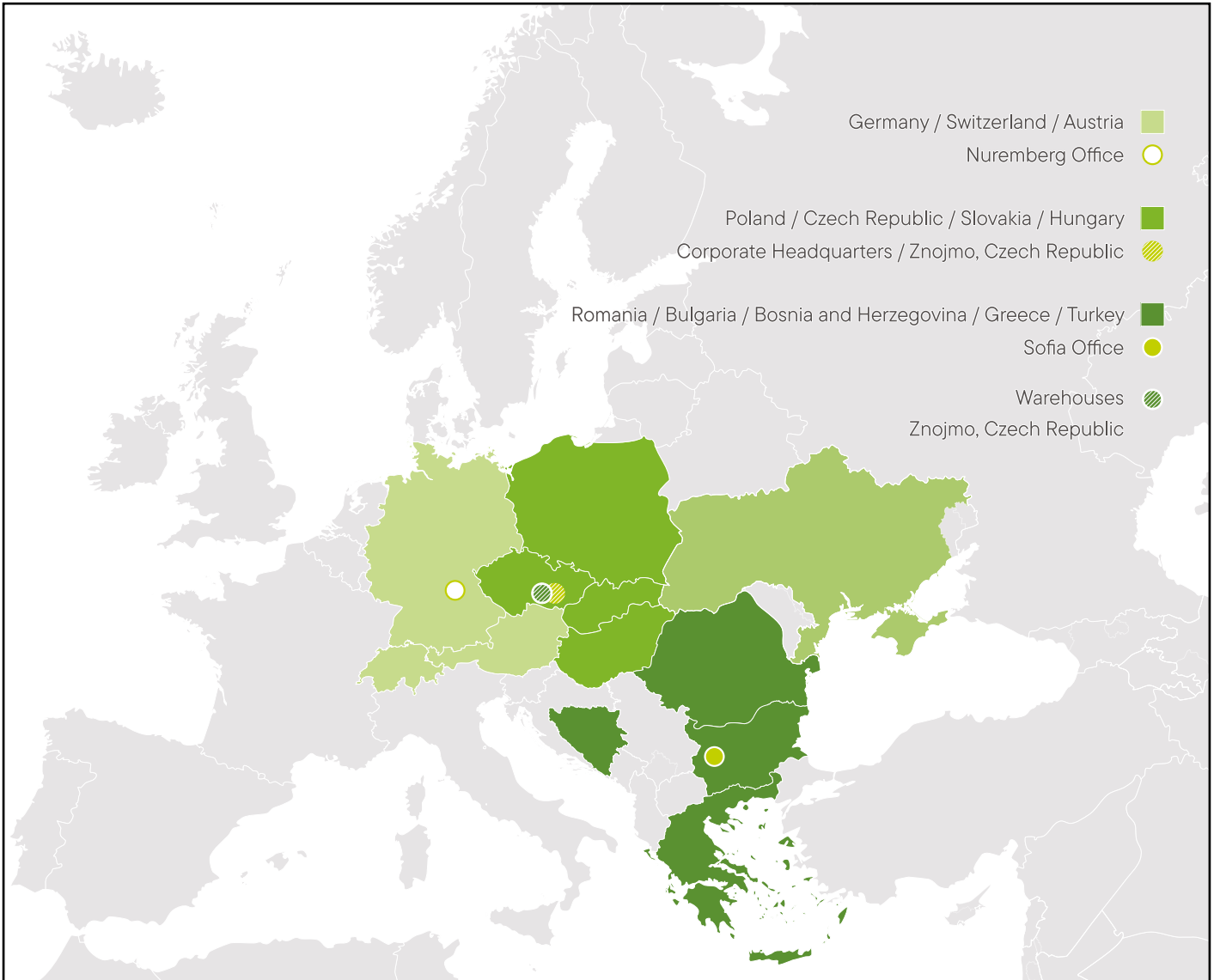
- » Simple dashboard for efficient project management
- » Google and Bing Maps integration for quick and detailed recording of building dimensions
- » Versatile graphic drawing tools and export options
- » Project-specific structural engineering verification
- » Detailed results report with parts list of the required components
- » Web-based application – no need to install on your PC or Mac



iFIX Tool logon

voestalpine.solarprotool.com





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