



An Inox Solar Americas Company



BOVIET SOLAR | PV CELL | OVERVIEW

POWERING A SUSTAINABLE FUTURE

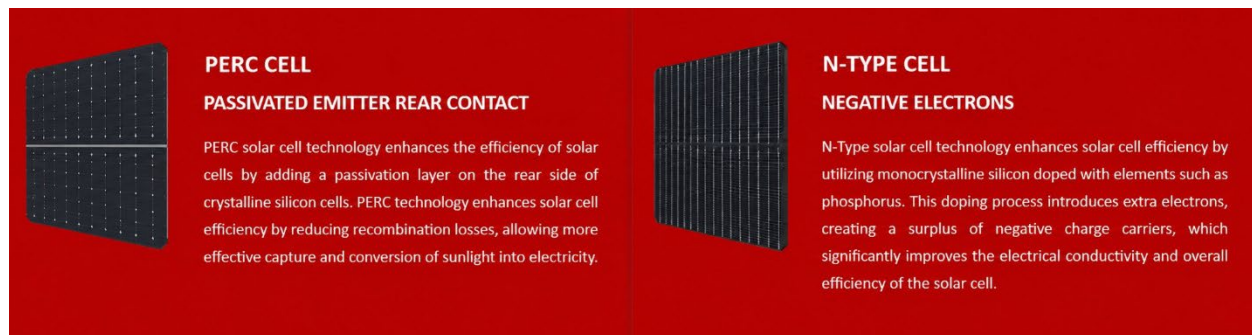
Engineered for Performance. Designed for Reliability. Built for Investment Confidence.

Boviet Solar, an Inox Solar Americas company, develops advanced photovoltaic (PV) cell technologies that power its high-performance Gamma Series™ monofacial and Vega Series™ bifacial PV modules. Designed for residential, commercial and industrial (C&I), community solar, and utility-scale applications, Boviet Solar's PV cells are engineered to maximize energy conversion efficiency, long-term reliability, and consistent performance across diverse environmental conditions.

By combining innovative cell architecture, precision manufacturing, and rigorous quality control, Boviet Solar delivers PV cell technologies that enable higher module performance, lower lifetime degradation, and improved energy yield. These technologies provide developers, EPC contractors, investors, and asset owners with reliable solutions that support both technical performance objectives and long-term investment value.

Boviet Solar's PV cell portfolio is built upon two proven technologies: Altairon™ Monocrystalline PERC and Galaxion™ N-Type. Altairon™ PERC cells deliver an excellent balance of efficiency, reliability, and cost-effectiveness, while Galaxion™ N-Type cells represent the next generation of

photovoltaic technology, offering higher conversion efficiency, lower degradation, improved temperature performance, and greater lifetime energy production.



Both PV cell platforms are engineered to maximize photon absorption, improve charge carrier collection, and reduce electrical losses throughout the conversion process. Advanced surface passivation, optimized emitter structures, and precision doping technologies enhance cell efficiency while maintaining stable electrical performance under a wide range of operating conditions.

Boviet Solar further enhances cell performance through advanced engineering innovations including half-cut cell architecture, multi-busbar (MBB) technology, large-format wafer designs, and optimized metallization patterns. These technologies reduce resistive losses, improve current collection, minimize hotspot formation, and enhance mechanical reliability, creating the foundation for higher-performing photovoltaic modules.

Manufacturing is conducted using high-precision automation, intelligent process controls, and tightly managed production environments to ensure exceptional consistency and product quality. Every PV cell undergoes comprehensive in-line monitoring and electrical inspection throughout production to verify efficiency, dimensional accuracy, and overall manufacturing integrity before module assembly.

Boviet Solar maintains strict quality management systems throughout the entire manufacturing process. Continuous process optimization, statistical process control, and comprehensive quality assurance programs ensure every production batch meets rigorous performance and reliability standards. This disciplined manufacturing approach delivers consistent product quality while supporting long-term operational performance in the field.

The company continues to invest in research, development, and manufacturing innovation to improve photovoltaic cell performance and production efficiency. Engineering teams focus on increasing conversion efficiency, reducing degradation mechanisms, optimizing temperature characteristics, and enhancing long-term stability to meet the evolving requirements of modern solar energy systems.

Boviet Solar PV cells are engineered to perform reliably under diverse environmental conditions, including high temperatures, variable irradiance, humidity, and demanding outdoor operating

environments. Optimized electrical characteristics and advanced cell design help maintain stable performance throughout decades of operation, supporting predictable energy production and long-term asset reliability.

The company's PV cell technologies form the foundation of both the Gamma Series™ monofacial and Vega Series™ bifacial module platforms. By integrating advanced cell technologies with optimized module architecture, Boviet Solar delivers complete photovoltaic solutions capable of supporting residential rooftops, commercial and industrial facilities, community solar installations, and utility-scale power plants worldwide.

Quality and reliability remain central to every stage of product development. Boviet Solar's manufacturing operations operate under internationally recognized quality management systems, incorporating stringent process controls, material verification, and continuous performance validation to ensure every PV cell meets the highest standards of safety, durability, and manufacturing excellence.

As part of its commitment to responsible manufacturing, Boviet Solar integrates sustainable production practices, efficient resource utilization, and environmentally responsible manufacturing processes throughout its operations. These initiatives support global sustainability objectives while delivering products that meet evolving regulatory and ESG expectations.

Built on Innovation. Engineered for Performance. Designed for Long-Term Reliability.

Boviet Solar continues to advance photovoltaic cell technology through continuous innovation, precision manufacturing, and uncompromising quality standards. Powered by Altairon™ Monocrystalline PERC and Galaxion™ N-Type technologies, Boviet Solar's PV cells provide the high-efficiency foundation for durable, high-performance solar modules that enable developers, EPC contractors, investors, and asset owners to maximize energy production, reduce project risk, and build reliable solar assets for decades to come.

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Boviet Solar, an Inox Solar Americas company founded in 2013, is a leading solar technology company specializing in the manufacturing of advanced monocrystalline Galaxion N-Type™ PV cells and premium Gamma Series™ monofacial and Vega Series™ bifacial PV modules. Boviet Solar's top-performing PV modules are engineered for a wide range of applications, including residential, commercial, industrial, community solar, and utility-scale solar projects.

Boviet Solar combines business acumen, financial strength, technological expertise, and manufacturing excellence to deliver reliable, high-efficiency solar solutions to customers across the renewable energy industry. The company is strongly committed to sustainability, supply chain traceability, and compliance with U.S. and international trade standards while fostering long-

term, trust-based partnerships throughout the energy sector. Boviet Solar has earned broad industry recognition for quality, reliability, and operational performance.

Boviet Solar has received multiple global bankability recognitions from leading independent research and analytics organizations. The company has been consistently ranked as a Tier 1 PV Module Manufacturer by Bloomberg New Energy Finance (BNEF) since 2017, recognized among Wood Mackenzie's A-Class Bankable Global PV Module Manufacturers since 2024, and listed among Sinovoltaics' Top 10 Most Financially Stable PV Module Manufacturers since 2024. In addition, TeraWatt PV has ranked Boviet Solar as Global Silver plus PV Module manufacturer, while Kiwa PVEL has recognized the company's products as Top Performers in its PV Module Reliability Scorecard since 2019. Collectively, these distinctions reinforce Boviet Solar's strong bankability, financial resilience, manufacturing credibility, and long-term reliability.

Boviet Solar operates its U.S. PV module and PV cell manufacturing facility in Greenville, North Carolina, supporting domestic solar deployment through localized production, supply chain stability, and efficient logistics. As an Inox Solar Americas company, Boviet Solar operates within a broader renewable energy platform under Inox Clean Energy and the INOXGFL Group, strengthening the company's long-term positioning, operational stability, and alignment with evolving U.S. market, policy, and regulatory requirements.

For more information, please visit www.bovietsolar.com, www.inoxclean.com, www.inoxgfl.com