



BOVIET SOLAR

PV CELLS | ENGINEERED TO PERFORM

Power, Performance, and Efficiency

At Boviet Solar, technological excellence is at the heart of everything we do. We are driven by a commitment to engineering advanced, high-performance, and dependable solar energy solutions that directly address the world’s growing demand for clean and renewable power. As the solar energy landscape evolves, our mission remains clear: to deliver cutting-edge photovoltaic (PV) technologies that consistently exceed industry benchmarks for power, performance, and efficiency, ensuring optimal results across residential, commercial, industrial, community, and utility-scale applications.

	<p>PERC CELL PASSIVATED EMITTER REAR CONTACT</p> <p>PERC solar cell technology enhances the efficiency of solar cells by adding a passivation layer on the rear side of crystalline silicon cells. PERC technology enhances solar cell efficiency by reducing recombination losses, allowing more effective capture and conversion of sunlight into electricity.</p>		<p>N-TYPE CELL NEGATIVE ELECTRONS</p> <p>N-Type solar cell technology enhances solar cell efficiency by utilizing monocrystalline silicon doped with elements such as phosphorus. This doping process introduces extra electrons, creating a surplus of negative charge carriers, which significantly improves the electrical conductivity and overall efficiency of the solar cell.</p>
<p>> PERC Cell Technology</p>		<p>> N-Type Cell Technology</p>	

Our solar product portfolio is built upon two of the industry’s most advanced solar cell technologies: Monocrystalline PERC and N-Type. These technologies are designed to achieve superior energy conversion efficiency, long-term stability, and enhanced performance in both standard and challenging environments. Our PERC cells offer a proven balance of efficiency and affordability, while our N-Type cells set new industry standards with lower light-induced degradation, stronger temperature coefficients, and greater power output over time. These high-efficiency cells form the foundation of our Gamma Series™ monofacial and Vega Series™ bifacial PV modules, which are engineered to meet the energy needs of today while anticipating the demands of tomorrow.

Incorporating half-cut cell technology, multi-busbar (MBB) architecture, large-format cell design, and advanced encapsulation materials, Boviet Solar modules are built for performance optimization. These innovations reduce electrical losses, enhance current flow, minimize hotspots, and improve thermal regulation resulting in higher output and prolonged system reliability. Our bifacial modules are particularly advantageous in high-albedo environments where the rear side of the module captures additional sunlight reflected from the ground, generating up to 20% more energy than conventional modules. This makes them ideal for high-yield solar farms, commercial rooftops, and ground-mounted installations where maximizing return on investment is critical.

By uniting technological sophistication with long-term reliability and responsible manufacturing, Boviet Solar empowers customers to confidently meet their renewable energy goals. Whether deployed on a home rooftop or on a utility-scale solar farm, our superior solar technology is engineered to perform delivering lasting value, environmental impact, and clean power for decades to come.