



2kV EBOS Solutions



Solar PV Project Challenges

As the renewable energy industry continues to grow driven by decarbonization efforts, it must keep up with rising demand for electrification and durable infrastructure. Success lies in maximizing output through faster project delivery, cost reductions, improved project value, longevity, and risk management. As a result, utility-scale solar owners, developers, and EPCs are seeking high-quality, innovative EBOS solutions to unlock the full potential of their projects.

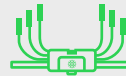
Shoals – Inventing Simple Again

Partner with Shoals to address industry challenges with our 2kV electrical and wiring solutions portfolio. We are driving the energy transition by delivering the same energy output with fewer systems, including streamlined string wiring and LBDs. Our 2kV EBOS enables faster installation, lower maintenance, and reduced labor, translating into significant cost savings. Optimized material use also makes these solutions a more sustainable choice.

Do More with Less

Our industry-leading, prefabricated, plug-and-play utility-scale solar solutions, tailored to your project's needs allow you to do more with less. Leverage our extensive expertise in renewables and electrification, along with our commitment to innovation, to optimize your solar energy projects. Mitigate risk and maximize your energy assets while benefiting from accelerated project timelines, enhanced cost-effectiveness, as well as robust and sustainable design.

Shoals 2kV EBOS Solution Lines



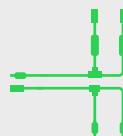
2kV Big Lead Assembly (BLA) is our renowned aluminum trunk bus system that combines the functionality of cable assemblies, combiner boxes, and fusing all into one. Installed mainly above ground, it cuts installation time and costs, while minimizing the need for unsustainable trenching. BLA's joints, built in a factory with a proprietary undermold/overmold process ensure long-term reliability and external protection.



2kV Load Break Disconnect (LBD) switches are critical safety components used to isolate and remove the field power from the inverter's input in utility-scale solar PV and battery storage applications. They are designed to handle high voltage and current, allowing operators to safely disconnect parts of the solar system for scheduled maintenance and shutdowns.



2kV BLA Transition Box is engineered for seamless integration with our cutting-edge 2kV BLA system, offering maximum flexibility and reduced DC feeder sizes. It enables smooth transitions between different wire sizes in solar projects, simplifying wiring, improving system management, and facilitating above-ground to below-ground transitions.



2kV Harness is a streamlined wiring solution that consolidates connections from multiple solar panels into one cable, reducing installation complexity and improving overall system reliability. Designed for efficiency, it ensures consistent, high-quality performance in solar power projects.

Key Benefits



Advance project design and execution

Design your solar project confidently, knowing our advanced EBOS solutions are available for any configuration.



Optimize energy output

Cut power losses by lowering the DC voltage drop over extended wire runs, optimizing energy output.



Ensure quality, longevity, and reliability

Reduce risk with in-house, durable solutions that include strict quality controls, preventing installation errors and thermal aging.



Accelerate project timeline and boost cost-effectiveness

Reduce project costs and accelerate deployment with quality prefabricated solutions that enhance efficiency and minimize O&M needs.



Meet your sustainability goals

Lower your carbon footprint with EBOS solutions that optimize material use and minimize waste.



Satisfy domestic content requirements

Choose EBOS solutions manufactured locally and labeled "Made in Tennessee."



Simplify purchasing, installation, and maintenance

Partner with one trusted supplier to address all your 2kV EBOS solution needs, allowing you to purchase, install, and maintain less.

Why Shoals?



Extensive solar PV experience and expertise

Since 1996, Shoals has led the renewable energy sector with our cutting-edge technologies and innovative EBOS and wiring solutions.



Both standardized and customized solutions

We offer standard solutions or collaborate with you to customize our solutions to meet your unique needs.



Top industrial capabilities in the sector

Shoals' innovative equipment and processes enable large-scale industrial production. Our world-class welding and molding techniques ensure long-term safety and reliability.



Driving the industry's future

Our involvement with SEIA ensures that Shoals shapes the regulatory environment and future standards of solar and energy storage.



Design, engineering, and long-term care

Our engineering and customer care teams provide continuous support to optimize layout and performance.



Industry-leading EBOS solutions provider

Our customizable plug-and-play solutions reduce material, installation, labor, and O&M costs for the system's lifespan, lowering project expenses.



Simplified procurement for all components

We offer an extensive portfolio of plug-and-play EBOS solutions for all of your solar project needs.



Innovation is in our DNA - Inventing Simple

With over 47 patents, we continuously innovate to make our solutions safer, more reliable, and responsive to the renewable energy industry's evolving needs.



Proudly made in Tennessee

Use products manufactured locally, where commitment to quality and precision ensures superior performance and reliability.

Contact Us

Unlock the full potential of your solar project with industry leading 2kV EBOS solutions and expert advice from Shoals. **Connect with us** today.

