



# SuperHarness for Solar PV

## Optimize Utility-Scale Solar Projects with Shoals

With AI and advanced tech driving up power demand, and decarbonization pushing transformation, the U.S. renewable energy industry is entering a new era. The shift toward reshoring and energy dominance makes speed, efficiency, and resilience more important than ever.

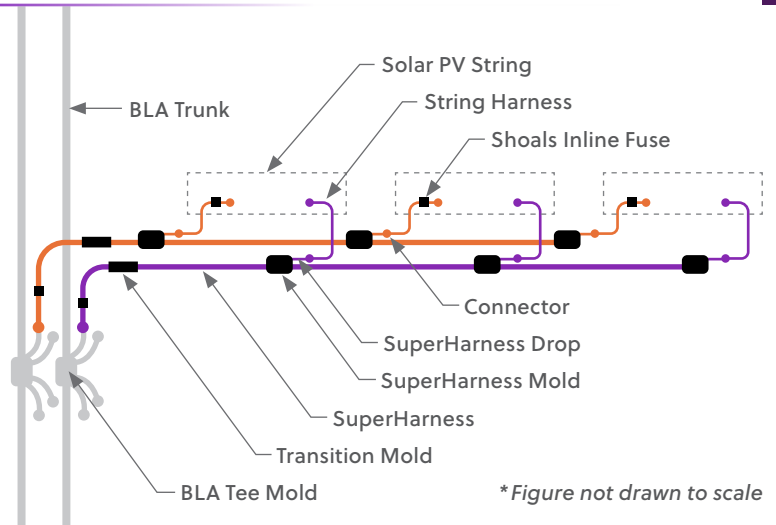
### Solar PV Project Challenges

Success for utility-scale projects today means building faster, partnering locally, and delivering durable, high-value systems that stand the test of time. Developers, EPCs, and O&Ms face increasing pressure to optimize system architecture and energy yield, while minimizing risk. They are seeking customizable, cost-effective EBOS and wiring solutions that maintain high energy output, reduce material use, minimize field obstructions for easier maintenance, and ensure safe, long-term operations.

### Unlock Performance with SuperHarness from Shoals

Transform solar project challenges into opportunities with Shoals' innovative SuperHarness. Designed for unobstructed long-row sites, SuperHarness delivers reliable power over distance in stacked tracker configurations.

The SuperHarness advantage is cleaner layouts, improved performance, and increased long-term reliability for utility-scale solar projects. With lower annual maintenance requirements, SuperHarness offers a simpler, more economical solution for building and maintaining solar sites over time.



### How Does SuperHarness Work?

SuperHarness is a two-in-one solution that combines string collection (up to 4 crystalline or bifacial strings) with cost-effective travelers that feed directly into Shoals' standard DC trunk bus (BLA) or a combiner box. By collecting more strings per harness, SuperHarness reduces the number of harnesses needed and extends reach between collection points and the BLA or combiner – resulting in a more efficient system layout.

With copper ends and aluminum mid-sections, SuperHarness' hybrid metal design lowers voltage drop and material costs, enabling efficient long-distance power transfer. Specialized molds ensure smooth copper-to-aluminum transitions, while Shoals' signature pig tail string drops simplify integration and enhance reliability.

## Key Benefits

### Increase energy yield

Augment project performance with solutions that minimize voltage loss.

### Cut costs & project timeline

Save on wire, time, and labor with optimized wiring solutions designed for efficiency and lower maintenance.

### Streamline design & execution

Rely on our top-quality wiring solutions and site design services for unobstructed long-row sites with stacked tracker configurations.

### Reduce project risk

Eliminate installation errors by using prefabricated connectors and wiring with stringent quality standards.

### Ensure quality & longevity

Choose in-house crafted, durable solutions tested beyond regulatory standards for exceptional reliability.

### Boost efficiency across stages

Simplify key processes, from design and sourcing to installation and O&M.

### Meet regulatory standards

Comply with top-tier EBOS solutions built to UL and NEC standards.

### Simplify procurement

Partner with one trusted supplier to address all your EBOS needs.

### Achieve sustainability goals

Lower your carbon footprint with wiring solutions that minimize waste.

### Support local economy

Purchase wiring solutions made with locally sourced inputs.

## Why Shoals?



### Extensive Solar PV experience and expertise

Since 1996, Shoals has led the renewable energy sector with our cutting-edge electrical balance of systems, harnesses, and wiring solutions.



### Both standardized and customized solutions

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



### Design, engineering, and long-term care

Our engineering and customer care teams help you design project layout and provide continuous support to optimize your solar installations' performance.



### Innovation is in our DNA - Inventing Simple

With over 67 patents worldwide, we continuously innovate to make our solutions safer, more reliable, and responsive to the clean energy industry' evolving needs.



### Industry-leading EBOS solutions provider

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



### Involved in shaping industry standards

Our partnership with SEIA ensures that we shape the regulatory landscape and future standards for solar and storage components.



### Simplified procurement for all components

We offer an extensive portfolio of plug-and-play electrical components and wiring solutions for all your renewable energy project needs.



### Proudly made in Tennessee

We support local communities by manufacturing our solutions in Tennessee, ensuring superior performance and reliability.

## Contact Us

Unlock the full potential of your solar project with industry-leading SuperHarness and other innovative EBOS solutions, as well as expert advice from Shoals.

**Connect with us** today to discuss your goals and share your drawings.

