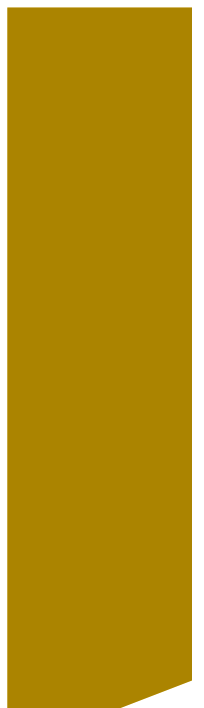


Solar Energy Solutions

Mounting Systems, Enclosures and Wire Management
for Solar PV Applications:

Commercial Rooftop | Ground Mount | Engineered Solutions

**COOPER B-Line**



Cooper B-Line manufactures labor- and material-saving solutions that reduce the overall cost per watt for commercial and utility solar PV applications.



Commercial Rooftop Mounting

Shedding light on solar PV solutions.

Backed by more than 50 years of electrical experience, Cooper B-Line utilizes its experience in traditional power generation applications and applies it to renewable energy applications, such as solar photovoltaic (PV) energy. As the need for alternative power generation sources continues to rise, we partner with major energy developers, electrical contractors, solar integrators, and installers nationwide to provide a complete offering of mounting and electrical components for solar PV applications, resulting in the lowest total project cost.

Bright ideas that benefit the solar energy market.

Cooper B-Line components are used on over 100 megawatts – and growing – of installed solar PV energy applications.

■ Lower Cost Per Watt

Cooper B-Line understands the need for cost-effective solutions to help solar PV energy developers and integrators meet their cost per watt requirements. We achieve this for our clients by applying our proven support and enclosure systems expertise, and creating labor and material savings.





Professional Custom Engineered Solutions



Engineered Open Structure Mounting Solution



Engineered Ground Mount Solution

■ **Complete Balance of System Offering of Mounting and Electrical Components**

Cooper B-Line seamlessly combines PV mounting, cable management, and enclosures to maximize efficiencies, enhance technologies, and utilize all components for the best possible results. Our Solar Team knows how to combine the right products to provide the best solutions through all phases of the design and installation process to meet solar PV energy requirements.

■ **Innovative Product Applications & Solutions**

In the solar energy market, experience and innovation are the key to driving successful client partnerships. We utilize standard and custom products to provide innovative solutions to meet the specific solar PV application. For example, we design a number of custom solutions, such as:

- Pole mounted cable management solution
- Unique cable tray configuration that significantly reduces installation labor
- Several custom utility PV mounting solutions for multi-megawatt projects

As the demand for innovative solutions grows, we continue to meet the challenge by designing standard package solutions to meet the various needs for solar PV applications. To keep up to date with our growing offerings, sign up

to receive information containing product introductions and solar energy news. Sign up today at: www.cooperblinesolar.com.

■ **A Proactive Approach To Business**

At Cooper B-Line, we believe that servicing our customers before, during and after the sale, positions us as the market leader in both the traditional and the renewable energy markets. It is this proactive approach with our clients that allows them to capitalize on project opportunities and helps secure federal and state tax incentives.

At Cooper B-Line, we're committed to the solar industry. From our dedicated and talented solar team to innovative mounting and engineering solutions, our clients gain value from forward-thinking approaches designed to answer the specific needs of the solar market.

Kevin Kissling, President, Cooper B-Line



Ground Mount Application



ARISTA™ Mounting System



ARISTA™ Mounting System – Various Angles Available

Proven balance of system components for PV mounting applications.

From smaller scale commercial rooftop applications in New Jersey to wide array, large utility open ground mountings in the desert of California, Cooper B-Line products are utilized as PV panel support and electrical components by major solar energy developers, installers, and integrators. We offer standard kit solutions as well as custom engineered solutions, including:

- **ARISTA™ Mounting System for Commercial Rooftop Applications**
- **Engineered Ground Mount Solutions**
- **Other Engineered Solutions**

Our comprehensive line of mounting and electrical products are designed to support standard panel wire management solutions, and enclosure solutions, plus various custom solutions. These products include:

ARISTA™ Mounting System for Commercial Rooftop Applications

The ARISTA™ Mounting System features a combination of standard electrical components pre-assembled to help provide time and labor savings for flat roof applications. The frame

construction is designed with Cooper B-Line durable bolted framing (also known as strut) to ensure lightweight, yet durable support for the solar PV panels.

The ARISTA™ Mounting System is one of the most flexible mounting designs in the market today, allowing it to be easily adapted to a variety of commercial rooftop applications.

- Landscape or portrait mounting
- Ballasted mounting with option to positively tie
- Adaptable to accommodate virtually any solar PV panel size or type
- Hinged design to allow for rooftop maintenance without disconnecting panels
- Available in tilt angles from 5 to 35 degrees in 5-degree increments
- Ballast pans and positively tied mounting kits available for both widths
- Landscape and portrait mounting clamps available

All of these unique features provide the customer with one of the most flexible and quickest PV mounting systems available in the market today. To learn more, go to: www.cooperblinesolar.com.



Electrical Enclosures



Cable Tray



Wireway

Engineered Solutions for Solar PV Applications

At Cooper B-Line, we understand that not every solar PV application need is the same. We engineer solutions to help meet the needs of our customers. We provide the complete Balance of System solution: PV mounting system, wiring and cable management, as well as electrical enclosures and meter mounting devices, for ground, commercial rooftop and open structure PV applications.

Solar PV Mounting System

Cooper B-Line offers custom solutions utilizing standard electrical products and accessories to form the foundation for PV panel mounting systems. We design systems to provide the customer the lowest total cost per watt solution.

Wire and Cable Management Solutions

Designed to provide protection, cable support, and wire management, Cooper B-Line cable tray systems and wireway are used primarily for utility scale and rooftop PV mounting applications. Cable tray solutions can be used in long spans of PV panel arrangements, making them easy to assemble as well as cost effective. Cooper B-Line

has over 50 years of experience manufacturing cable tray and wireway support systems and has grown to become the industry leader by offering unmatched quality in both service and products.

Electrical Enclosures

Cooper B-Line electrical enclosures are used in a variety of solar PV applications to supply electrical component housing and protection. We offer enclosures in a wide range of NEMA ratings that are UL certified. No matter the environmental conditions, Cooper B-Line electrical enclosures help to protect electrical controls, equipment and instruments.

Meter Mounting Devices

Cooper B-Line provides a broad offering of meter mounting devices for the solar energy market. This includes a range of individual meter sockets, meter mains, and current transformer rated metering enclosures used to house watt hour meters that measure both power creation and/or consumption. These products are UL listed and provide a NEMA type 3R "outdoor" construction rating.



Rooftop Safety Walkways



DURA-BLOK™ Supports for Combiner Boxes



Safety & Maintenance Walkways

Cooper B-Line's GRATEWALK™ Safety Grating rooftop walkway system is designed to provide safe footing and access to rooftop PV mounting installations for routine maintenance. This grating is constructed of lightweight metal and ideally suited for all weather conditions. The system is available with DURA-BLOK™ rooftop supports to eliminate the need for roof penetrations.

Committed to environmental responsibility.

When developing solutions for the solar PV energy market, Cooper B-Line is dedicated to environmentally friendly manufacturing and applications. We insist on a high content of recycled materials in all of our products whenever possible. Another example of this commitment is our non-penetrating DURA-BLOK™ product which is made with 100% recycled tires and may qualify for LEED credits.

In the solar energy market, experience and innovation are the keys to creating successful partnerships with electrical contractors, and solar energy developers and integrators.

Power provided by the sun. Performance provided by Cooper B-Line.

In the solar energy market, experience and innovation are the keys to creating successful partnerships with electrical contractors, and solar energy developers and integrators.

Cooper B-Line:

- Offers innovation and expertise that results in lower cost per watt
- Provides complete electrical and mounting Balance of System components for solar applications
- Has over 50 years of providing components to the power generation industry, including over 100 MW – and growing – of installed solar PV energy applications
- Is utilized by major solar energy developers and installers
- Is recognized for our industry leading commitment to service

When you combine all of these proven benefits, it's easy to see why Cooper B-Line is your best choice for solar energy applications. Contact Cooper B-Line today and discover how we shed light on solar innovation.



Traditional & Renewable Energy



Professional Engineered Solutions



Powered by the Sun. Performance by B-Line.

A Solar Team dedicated to your specific challenges.

Cooper B-Line's dedicated Solar Team features experienced engineers that are dedicated to solving the specific challenges of the solar energy market. These talented engineers know how to combine the right products with the right solutions to effectively meet solar PV energy requirements. By leveraging the benefits of Cooper B-Line's deep line of PV components, the Solar Team has the ability to quickly and cost-efficiently offer our clients solutions through standard product applications, or custom solutions designed to meet specific solar needs. Electrical contractors,

solar energy developers and integrators rely on our solar PV knowledge and ability to deliver successful options that meet or beat delivery times, and exceed expectations. Depend on Cooper B-Line's dedicated Solar Team of proven engineers to offer proven expertise through all phases of the design and installation process, before, during and after the project.

For assistance on your next solar project, contact the Cooper B-Line Solar Team at:

1.877.586.8607

Solar.Team@cooperindustries.com

www.cooperblinesolar.com



Cooper B-Line's U.S. Customer Service Center is staffed Monday through Friday from 7 a.m. to 5:00 p.m. Central Standard Time. If a situation requires that you have to contact us after hours, please leave a message via phone or E-mail so we can give it immediate attention the following business day.

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