



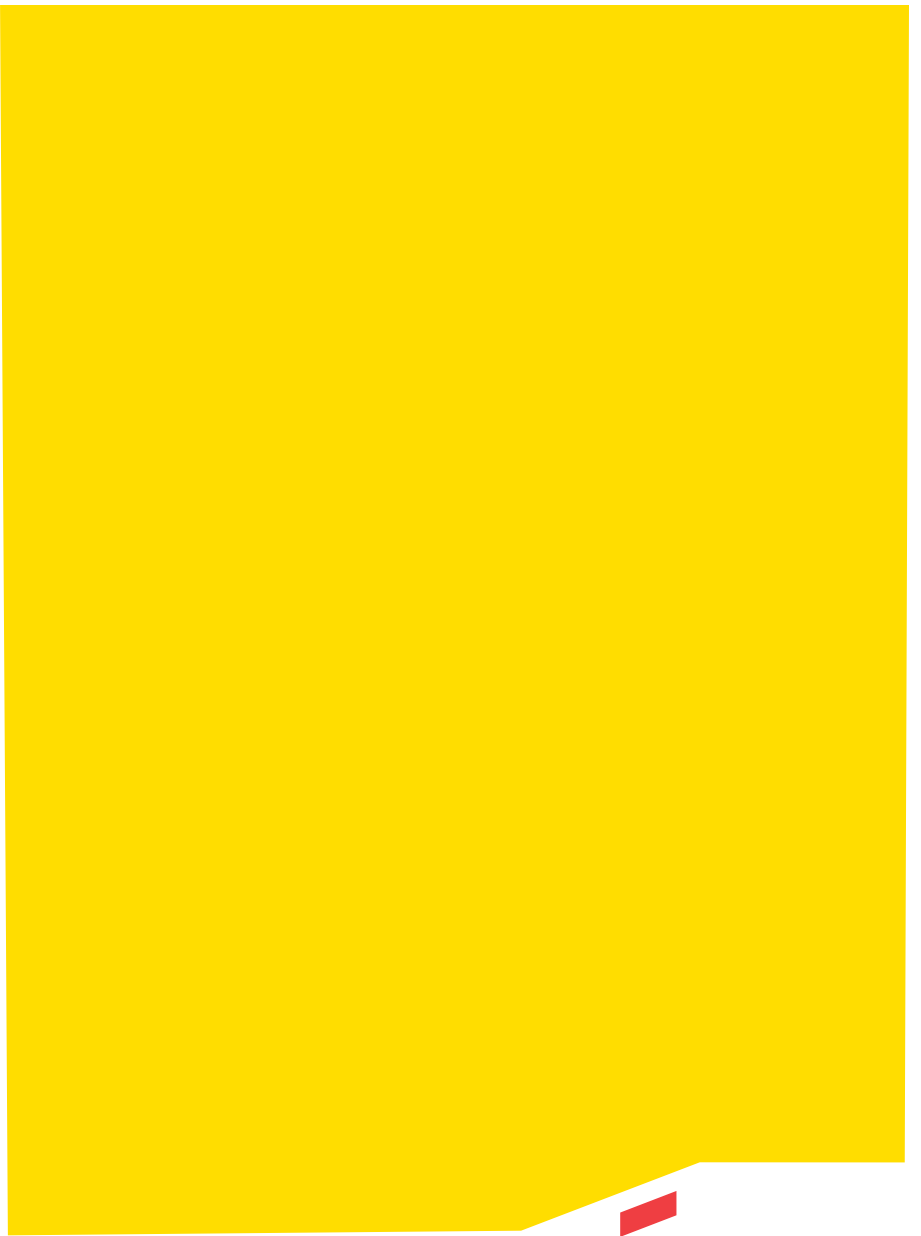
## Safe, Simple & Complete Solutions for Renewable Energy





# SAFE. SIMPLE. COMPLETE.

Optimize your renewable energy power generation capacity through the reliability and expertise of a Cooper Bussmann® protected electrical system. As your single source for the entire AC and DC circuit protection and disconnecting package, Cooper Bussmann quickly provides safe, simple and complete circuit protection solutions so you can take full advantage of converting sunlight and wind into usable energy.





## Cost-Optimized Solutions

Not only are Cooper Bussmann products engineered to provide the safest solutions, they are designed to allow you to minimize your total cost of ownership. We provide everything from components and assemblies to complete solutions, to give the specifier design flexibility and investors/owners the best value.



## QuikShip Service

In addition to our 80% of order lines shipping the same day, we offer QuikShip service on traditionally longer lead time products such as:

- Combiner boxes
- Panelboards
- High speed fuses



## Single Source

Cooper Bussmann can provide the entire circuit protection and switching package – from point of generation to the utility – saving you time in sourcing and qualifying vendors. We have the broadest renewable energy product offering to protect your investment and are the preferred choice for renewable energy applications.



## Safety & Downtime Reduction

Safety, shock and arc flash represent a hazard to workers and system reliability. There are numerous tactics to implement to increase electrical safety, from designing and upgrading systems to training, utilizing the right components and implementing safe work practices. Cooper Bussmann can help you protect your investment and minimize your downtime.



## Technical Expertise

For nearly 100 years, Cooper Bussmann has protected people, equipment and business from electrical hazards. We are the experts in safe system design and application. Call our dedicated technical services team or visit with one of our Field Application Engineers and experience for yourself why it's always safe to be with Cooper Bussmann.



## Code Compliance

In an ever-changing regulatory environment, Cooper Bussmann products and services help you comply with local codes and standards. For OEM customers, the Cooper Bussmann Paul P. Gubany Center is the electrical industry's most comprehensive test facility for certifying electrical components and assemblies.



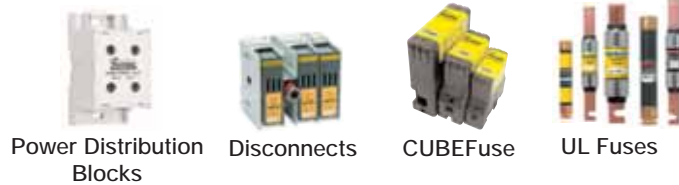


Wind  
energy



### Motor Protection

Motors inside the nacelle operating blade pitch and attitude require circuit protection which meets UL/IEC standards. We offer a broad range of low voltage fuses, power distribution blocks with high short-circuit current ratings, and disconnect switches to easily isolate system segments for safety, maintenance and system reliability.



Power Distribution Blocks

Disconnects

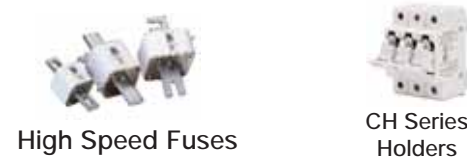
CUBEFuse

UL Fuses



### Inverters

Inverters produce higher fault currents with greater potential for short circuits. Our high speed fuses protect sensitive power switching electronic components in the inverter. We offer the right body style to meet global needs, as well as lower watts loss, enabling these fuses to operate with the greatest efficiency.



High Speed Fuses

CH Series Holders



### Power Distribution and Control System Protection

Large current levels and power electronics require superior circuit protection to assure maximum turbine kilowatt-hour production, while low voltage circuit protection is required between the base and the transformer. Small fast-acting and time-delay fuses and accessories are ideal for control component protection and provide compact design with global application. Cables running down the tower to the transformer require cable limiters to isolate and protect against short-circuit currents.



Fuse Holders & Blocks

KLM/DCM Midget Fuses

Surge Protection Devices

MV Fuses

CH Series Holders



### Wind Turbine OEM's

Specify Cooper Bussmann components and you also receive field application engineering support and nearly 100 years of experience. You can access our technical expertise via phone, email or published technical material. Cooper Bussmann takes you from recommendation to implementation to ensure you maximize system uptime, comply with local codes, and increase safety.



Solar  
energy





### System Integrators and Contractors

Benefit from our almost 100 years of experience and global reach. We have experience with large solar projects in North America, Europe and Asia, and have components and assemblies available that help you get the job done. System integrators will also find easy installation with over 1000 combinations of combiner boxes, available in compact, standard and integrated disconnect models.



Combiner Boxes



DC Safety Switches



### Solar Inverter OEMs

Manufacturers of inverters require circuit protection for their advanced power electronics systems. We offer a wide variety of the components you need.



High Speed Fuses



UL Fuses



CUBEFuse



Disconnects



Terminal Blocks



Fuse Holders & Blocks



Surge Protection Devices



Terminal Strips & Blocks



Compact Circuit Protectors



### Combiner Box Manufacturers

Combiner box manufacturers benefit from using Cooper Bussmann components. With unmatched application expertise and global resources, we can help you technically as well as consistently deliver high quality components whenever and wherever you need them. We can also provide a complete private label combiner box in over 1000 configurations.



CH Series Holders



Power Distribution Blocks



Solar RK Fuses



KLM/DCM Midget Fuses



Solar PV Fuse



### Power Producers

Specify Cooper Bussmann products to easily increase safety and reliability while delivering flexibility. Our application engineers are available in the field or via phone or email to assist you in specifying the best circuit protection for your solar power generation installation.

# Safe, Simple & Complete Solutions for Renewable Energy



Solar  
Fuses



Combiner  
Boxes



Electrical  
Fuses



Surge  
Protection



High  
Speed  
Fuses



AC and DC  
Safety  
Switches



Software



Electrical  
Services



Terminal  
Blocks



Electronic  
Fuses



Compact  
Circuit  
Protectors



Power  
Distribution  
Blocks



Wire  
Management



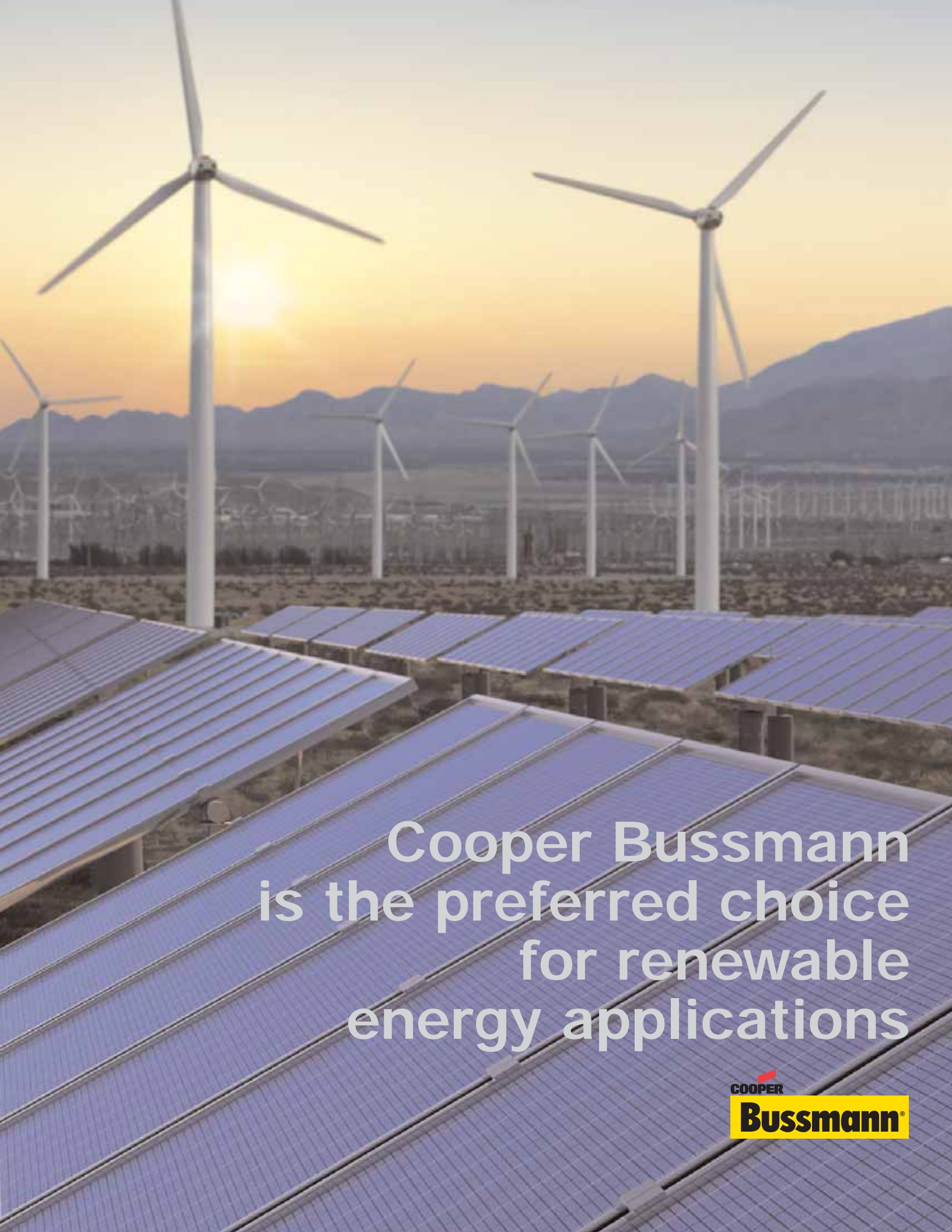
Disconnects



Quik-Spec  
Coordination  
Panelboards

and more...

[cooperbusmann.com](http://cooperbusmann.com)



Cooper Bussmann  
is the preferred choice  
for renewable  
energy applications



## Customer Assistance

### Customer Satisfaction Team

Available to answer questions regarding Cooper Bussmann products & services Monday-Friday, 8:00 a.m. – 6:00 p.m. Central Time. Contact:

- Phone: 636-527-3877
- Toll-free fax: 800-544-2570
- E-mail: [busscustsat@cooperindustries.com](mailto:busscustsat@cooperindustries.com)

### Emergency and After-Hours Orders

Next flight out or will call shipment for time-critical needs. Customers pay only standard product price, rush freight charges, & modest emergency service fee. Place these orders through the Customer Satisfaction Team during regular business hours. For after-hours, contact:

- After hours 314-995-1342

### C<sup>3</sup> – the Enhanced, Online Cooper Customer Center

Provides real time product availability, net pricing, order status & shipment tracking across six Cooper divisions: B-Line, Bussmann, Crouse-Hinds, Lighting, Power Systems & Wiring Devices. Call 877-995-5955 for log-in assistance. Available at:

- [www.cooperc3.com](http://www.cooperc3.com)

### Application Engineering

Technical assistance is available to all customers. Staffed by degreed electrical engineers, this application support is available Monday-Friday, 8:00 a.m. – 5:00 p.m. Central Time. Contact:

- Phone: 636-527-1270
- Fax: 636-527-1607
- E-mail: [fusetech@cooperindustries.com](mailto:fusetech@cooperindustries.com)
- Live Chat: [www.cooperbussmann.com](http://www.cooperbussmann.com)

### Online Resources

Visit [www.cooperbussmann.com](http://www.cooperbussmann.com) for the following resources:

- Product search & cross-reference
- Product & technical materials
- Solutions centers for information on topical issues including arc-flash, selective coordination & short-circuit current rating
- Technical tools, like our arc-flash calculator
- Where to purchase Cooper Bussmann product

### Services

Cooper Bussmann Services team provides engineering expertise in electrical system reviews, electrical safety training & component testing for Agency compliance. Contact:

- Phone: 636-207-3294
- E-mail: [services@cooperindustries.com](mailto:services@cooperindustries.com)

Cooper Bussmann®  
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636-394-2877  
[www.cooperbussmann.com](http://www.cooperbussmann.com)

Your Authorized Cooper Bussmann Distributor is:



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600 Travis, Ste. 5600  
Houston, TX 77002-1001  
P: 713-209-8400  
[www.cooperindustries.com](http://www.cooperindustries.com)