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## News Release

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### **New Cooper Bussmann® 600Vdc Class RK5 Solar Fuses Provide Superior Circuit Protection for High Amperage Photovoltaic Systems**

*The first Class RK5 fuse listed to the new UL photovoltaic (PV) fuse standard.*

**St. Louis, MO, September 2, 2010** – The new Cooper Bussmann® PVS-R solar fuse provides high amp ratings with the required fast-acting response to low photovoltaic DC faults. The PVS-R fuse is the first fuse of its kind to achieve a UL 2579 Listing for *LOW-VOLTAGE FUSES – FUSES FOR PHOTOVOLTAIC SYSTEMS*. With a dual 600Vac/dc rating, the PVS-R fuse is designed to meet the higher amperage levels of today's larger solar power systems, while withstanding extreme high and low ambient temperatures, routine cycling, and opening under low level fault current conditions. Typical competitive offerings provide only traditional time-delay fuses that are not well suited for solar power system protection.

Unlike AC systems, the available short-circuit current in photovoltaic (PV) systems is limited and requires the overcurrent protective device to operate effectively on low levels of fault current. For this reason Cooper Bussmann, the recognized leader in critical circuit protection, power management and electrical safety, has conducted extensive research and development of fuses that are specifically designed and tested to address the unique overcurrent protection needs of PV systems. This includes testing in ovens to simulate actual application ambient temperatures. Cooper Bussmann also provides time-current curves which follow as close as possible to actual field applications.

Available in ratings from 20 to 600 amps, the PVS-R fuse is well suited for use in recombiner boxes and DC safety switches that operate at higher current levels, but experience the same low-level fault current conditions as combiner boxes and PV strings and arrays.

“Solar power is different and creates the need for unique circuit protection,” explained Ivo Jurek, Cooper Bussmann division president. “Our new PVS-R fuse can handle extreme cycling conditions as well as

low magnitude overloads for quicker response to the low level solar system faults. This helps isolate faults faster and minimizes damage to system components. Whether it's overcurrent protection, fused disconnects, combiner boxes or power distribution and terminal blocks, Cooper Bussmann products meet prevailing agency standards with the special performance characteristics as required for solar power applications.”

The new PVS-R fuse is available to meet circuit applications up to 600A. Also, as a standard Class RK5 fuse meeting UL 248-12, it is easy to apply and install in traditional fuse blocks and DC safety switches.

For more information about the Cooper Bussmann Photovoltaic Fuse, visit

[www.cooperbussmann.com/PVS-R](http://www.cooperbussmann.com/PVS-R) for the product profile or search under the catalog number PVS-R.

The Cooper Bussmann Customer Satisfaction team can assist regarding products and services at 636-527-3877 or email [busscustsat@cooperindustries.com](mailto:busscustsat@cooperindustries.com). For application engineering assistance contact 636-527-1270 or email [fusetech@cooperindustries.com](mailto:fusetech@cooperindustries.com).

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### **About Cooper Bussmann**

Cooper Bussmann, the industry leader in critical circuit protection, power management and electrical safety, is a division of Cooper Industries (NYSE: CBE), and is headquartered in St. Louis, Missouri, USA. The company is committed to the development, manufacturing and marketing of innovative circuit and power electronics protection and power management products; and provides engineering, training and testing services globally for the electrical, electronics and transportation industries. The company provides superior brands, including Cooper Bussmann® circuit protection products and services, Coiltronics® magnetics, and OMNEX Trusted Wireless® systems. Additional information about Cooper Bussmann is available online at [www.cooperbussmann.com](http://www.cooperbussmann.com).

### **About Cooper Industries**

Cooper Industries plc (NYSE: CBE) is a global manufacturer with 2009 revenues of \$5.1 billion, approximately eighty-nine percent of which are from electrical products. Founded in 1833, Cooper's sustained level of success is attributable to a constant focus on innovation, evolving business practices while maintaining the highest ethical standards, and meeting customer needs. The Company has eight operating divisions with leading market share positions and world-class products and brands including: Bussmann electrical and electronic fuses; Crouse-Hinds and CEAG explosion-proof electrical equipment; Halo and Metalux lighting fixtures; and Kyle and McGraw-Edison power systems products. With this broad range of products, Cooper is uniquely positioned for several long-term growth trends including the global infrastructure build-out, the need to improve the reliability and productivity of the electric grid, the demand for higher energy-efficient products and the need for improved electrical safety. In 2009, sixty-one percent of total sales were to customers in the industrial and utility end-markets and thirty-nine percent of total sales were to customers outside the United States. Cooper has manufacturing facilities in 23 countries as of 2009. For more information, visit the website at [www.cooperindustries.com](http://www.cooperindustries.com).

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