



## ***NEWS RELEASE***

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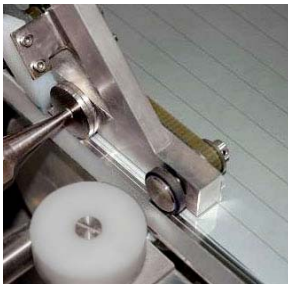
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FOR IMMEDIATE RELEASE

### **Manufacturers of Solar Panels Get Outstanding Results by Using the Sonobond Ultrasonic Photovoltaic Modular System in the Production of Solar Cells**

***This ultrasonic metal welding equipment from Sonobond Ultrasonics creates an ultra-reliable, solid-state metallurgical bond.***

WEST CHESTER, Pennsylvania, May 19, 2009—Melissa Alleman, Vice President of Sonobond Ultrasonics, announced today that the MS-5010PV



Ultrasonic Photovoltaic (PV) Modular System continues to play a key role in the manufacture of the solar cells that constitute solar panels. This Sonobond ultrasonic technology is used to weld aluminum foil to the metallized glass on the photovoltaic cells. The resulting interconnects between the PV cells produce an array with excellent conductivity.

According to Ms. Alleman, "In this period when there is so much discussion about global warming and a desire to find alternative energy sources,

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our Ultrasonic PV Modular System is becoming increasingly popular with solar cell manufacturers. They appreciate the fact that our technology is fast, efficient, and cost-effective. Most importantly, they have seen that using Sonobond’s Ultrasonic Photovoltaic Modular System does not distort materials or crack the glass panels in the PV cells. In addition, it requires only minimal training and is easy to operate. This can mean important savings for them in time, resources, and production costs.”

### Easily Integrated Into Automated Assembly Systems

The MS-5010PV is intended for integration into an automated assembly system. It consists of an ultrasonic head with a rotatable welding disk and a power supply. The head has a keyed shaft which can be used to rotate the welding disk at the same speed as the advancing photovoltaic panel. The power



supply includes a solid-state frequency converter, as well as automatic tuning control. This *eliminates the need to manually adjust the frequency.*

Manufacturers can specify either the standard 110-volt system or a 220-volt system.

Sonobond personnel work closely with solar panel manufacturers to provide in-depth technical support before, during, and after installation.

According to Vice President Alleman, “We place a high priority on customer

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service at Sonobond. Working with those who currently use our products—or who may do so in the future—is important to us. We are proud of our technology and want customers to have a positive experience in every respect.”

### **The Advantages of Ultrasonic Welding**

Sonobond’s Ultrasonic PV Modular System produces seam welds through the momentary application of mechanical vibratory energy under pressure.

Ultrasonic bonding offers numerous advantages in producing the photovoltaic solar cells used to make up solar panels. It does *not* produce excessive heat and uses no fluxes, tapes, solder, or other consumables. The process is neat, environmentally friendly, and economical. There is no need for cleaning before or after the weld is made.

### **A Leader in Ultrasonic Welding Technology**

Sonobond is a worldwide leader in the application of ultrasonic welding and bonding technology. The company—then known as Aeroprojects—received the first patent ever awarded for ultrasonic metal welding. This was in 1960. During the intervening 49 years, Sonobond has earned an outstanding reputation for its pioneering work and quality-engineered products. Sonobond now manufactures a complete line of ultrasonic bonding and welding equipment for a wide variety of customers. These include companies in the environmental,

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automotive, appliance, electrical, HVAC, aerospace, filtration, medical, and apparel industries.

### Additional Information

Sonobond offers a free Ultrasonic Welding Viability Test to manufacturers. This provides a practical, no-obligation way for companies to determine the suitability of Sonobond technology for their *specific* application.

Anyone looking for additional information about the complimentary Ultrasonic Welding Viability Test...the MS-5010PV Ultrasonic Photovoltaic Modular System...or other Sonobond products is urged to visit the company’s website at [www.SonobondUltrasonics.com](http://www.SonobondUltrasonics.com). They can also email Sonobond’s vice president, Melissa Alleman, at [MAlleman@SonobondUltrasonics.com](mailto:MAlleman@SonobondUltrasonics.com) or call 800-323-1269.

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### **[Suggested photos with captions]**

#### **[Photo of unit welding a PV cell]**

Sonobond’s MS-5010PV Ultrasonic Photovoltaic Modular System welds aluminum foil to the metallized glass on PV cells. It does this *without* distorting materials or cracking glass panels.

#### **[Photo of power supply and welding head]**

The Sonobond MS-5010PV System is intended for integration into automated assembly equipment. It consists of an ultrasonic head with a rotatable welding disk and a power supply with automatic tuning control.