

## FOR IMMEDIATE RELEASE

### **AMELIO SOLAR DEBUTS THIN-FILM PV MODULE Thin-Film Pioneer Announces “PV Duo™” Tandem Technology**

Munich, Germany – May 27, 2009 – Amelio Solar, Inc., a Ewing, New Jersey, USA based developer of thin-film photovoltaic technologies, products and related manufacturing and power generation solutions, announces its latest innovation, the “PV Duo” tandem photovoltaic module.

The PV Duo combines a thin-film amorphous silicon (a-Si) photovoltaic device and a thin-film copper indium gallium diselenide (CIGS) photovoltaic device into one integrated module.

The primary advantages of the PV Duo technology are:

- the most efficient thin-film photovoltaic module technology, with demonstrated efficiency as high as 13%
- retains the important advantages of a-Si, including its ability to perform in high temperature and low light conditions
- no carcinogenic content, as opposed to other advanced thin-film technologies such as Cadmium Telluride and other CIGS products which use cadmium sulfide as a buffer layer.

Dr. Zoltan Kiss, founder of Amelio Solar, stated: “I, and other members of our technical team, have been involved in the development of virtually every thin-film technology from the 1960s onward. The PV Duo is the pinnacle of this work, a combination of the best technologies to deliver a higher-efficiency thin-film product without the dangers of cadmium.”

The PV Duo capitalizes on the construction of glass-to-glass encapsulated thin-film photovoltaic modules. As with the a-Si and CIGS, the PV Duo consists of a glass plate to which are applied the layers of material comprising the thin-film photovoltaic device. Unlike a-Si and CIGS, however, which have a second glass plate that serves as a blank, protective back cover laminated to the photovoltaic glass plate, the PV Duo utilizes the surface area of the second glass plate to create a second photovoltaic device, initially CIGS-based, which is laminated to the first photovoltaic glass plate, initially a-Si-based, resulting in an a-Si/CIGS four terminal tandem module.

The company offers its PV Duo, a-Si and CIGS products in 1.0 square meter and 1.5 square meter substrate sizes, and turn-key manufacturing systems for all products with either manual or optional automated glass plate-handling.

About Amelio Solar:

Amelio Solar, Inc. is a leading provider of low-cost, thin-film photovoltaic module technology and related product manufacturing and power-generation solutions. The company's technical team is one of the most experienced in the industry, drawing on a 40-year legacy of photovoltaic technology innovation and commercialization, including helping to invent thin-film photovoltaic technology, creating an industry-standard process for thin-film photovoltaic module manufacturing, deploying more than a dozen thin-film photovoltaic module factories around the world and installing several of the world's first large-scale and building-integrated thin-film photovoltaic power generation systems.

For further information about Amelio Solar, please visit our Web site at [www.ameliosolar.com](http://www.ameliosolar.com). We invite you to visit us at the Intersolar 2009 Trade Fair in Munich, Booth A3.109.

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**For more information, contact:**

Amelio Solar, Inc.:  
Bart Wolman  
Chief Sales and Marketing Officer  
917-573-0405  
[bwolman@ameliosolar.com](mailto:bwolman@ameliosolar.com)



[www.ameliosolar.com](http://www.ameliosolar.com)