



Ascent Solar Commences Initial Production from Its FAB 2 Production Plant

THORNTON, Colo., May 12, 2010 (BUSINESS WIRE) -- Ascent Solar Technologies, Inc. (NASDAQ:ASTI), a developer of state of the art flexible thin-film solar modules, announced today that it has successfully begun initial production of monolithically integrated flexible CIGS modules from its high volume FAB 2 production plant in Thornton, Colorado.

Farhad Moghadam President and CEO of Ascent Solar stated, "Ascent Solar is the first company to commence regular production of monolithically integrated lightweight thin-film CIGS modules using a plastic substrate. This milestone marks the initiation of our regular production capability and our factory ramp up based on market demand. Initial production from FAB 2 is producing 10.5% efficient modules with peak module aperture efficiency as high as 11.9%, which gives Ascent a very competitive product across our target market opportunities."

Simultaneous with today's announcement the company issued a video virtual tour of its FAB 2 production plant. Please visit www.ascentsolar.com to take the tour.

About Ascent Solar Technologies:

Ascent Solar Technologies, Inc. is a developer of thin-film photovoltaic modules with substrate materials that can be more flexible and affordable than most traditional solar panels. Ascent Solar modules can be directly integrated into standard building materials, space applications, consumer electronics for portable power or configured as stand-alone modules for large scale terrestrial deployment. Ascent Solar is headquartered in Thornton, Colorado. For more information, go to www.AscentSolar.com.

Forward Looking Statements

Statements in this press release that are not statements of historical or current fact constitute "forward-looking statements." Such forward-looking statements involve known and unknown risks, uncertainties and other unknown factors that could cause the Company's actual operating results to be materially different from any historical results or from any future results expressed or implied by such forward-looking statements. In addition to statements that explicitly describe these risks and uncertainties, readers are urged to consider statements that contain terms such as "believes," "belief," "expects," "expect," "intends," "intend," "anticipate," "anticipates," "plans," "plan," to be uncertain and forward-looking. The forward-looking statements contained herein are also subject generally to other risks and uncertainties that are described from time to time in the Company's filings with the Securities and Exchange Commission.

SOURCE: Ascent Solar Technologies, Inc.

For Ascent Solar Technologies, Inc.
Brian Blackman, +1 720-872-5107 (Investor Relations)
bblackman@ascentsolar.com

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