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Amphenol and Tigo Optimize PV Junction Box Technology

New box receives CSA certification for integrated SmartModule Technology

Sidney, N.Y. February 2013 – Amphenol Industrial Global Operations, a global leader in interconnect systems, has incorporated Tigo Energy’s PV optimizer technology into a new junction box, increasing power efficiency and eliminating the need for add-on products. The HBFMMJ-ES50, also known as the Tigo-Amphenol Optimizer, is the first in its class to receive CSA certification for integrated Smart Module technology.

Amphenol’s new junction box incorporates Tigo Energy’s optimizer directly onto the solar panel module fulfilling the growing demand for lower part count and easier installation of solar products. The integrated technology also increases energy harvest and system uptime, while providing better arc, fire and safety hazard mitigation.

Martin Booker, general manager of Amphenol Industrial Global Operations, said, “By joining efforts with Tigo Energy, Amphenol is able to provide customers with additional innovative ways to maximize PV system efficiency.”

Sam Arditi, CEO of Tigo Energy, continues, “We have revolutionized DC power electronics by placing our technology into Amphenol’s junction box. Customers can now have all the benefits of optimizers and micro inverters without the need for additional labor or equipment.”

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“Collectively, we have enabled customers with more options to easily and efficiently get the most from their solar products,” commented Booker.

Used for residential, commercial and utility scale photovoltaic applications, the Optimizer maximizes power output of each solar panel module. It also delivers module level data for operational management and performance monitoring as well as provides the ability to deactivate a high voltage DC bus for safe installation, maintenance and firefighting.

The new junction box is certified to CSA-C22.2 No. 107.1-01 for general use power supplies and features 300 W of maximum power, 52 V of DC output and a maximum current input of 10 A.

Amphenol’s connectors and junction boxes offer the highest voltage and current ratings in the PV market.

For more information, please visit <http://www.amphenol-industrial.com> or e-mail mfarrelly@amphenol-aio.com.

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EDITOR'S NOTE: Amphenol Industrial Global Operations, headquartered in a 675,000 square foot facility in Sidney, N.Y., provides a full range of high reliability connectors and interconnection systems specifically for the industrial markets including base stations, rail/mass transit, process control, automotive manufacturing, heavy equipment, and petrochemical/power generation.

Products include ruggedized-for-industry cylindrical, fiber optic, rectangular, and industrialized versions of Amphenol's MIL-DTL-5015 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. It employs more than 1,400 people and is both ISO9001 and MIL-STD-790 certified.

Amphenol Industrial Global Operations is a division of Amphenol Corporation, Wallingford, CT, one of the largest manufacturers of interconnect products in the world, with year 2011 sales topping \$3.9 billion.

About Tigo Energy

Tigo Energy designs the #1 PV solar optimizer SmartModule™ technology utilizing patented impedance matching technology enabling 25% more power density and efficiency on any roof or utility project, uneven string lengths and different orientations. Installers and system owners achieve the highest ROI by increasing energy production and maximum system up-time for new systems and retrofits. Headquartered in the Silicon Valley, Tigo Energy is an innovative force partnering with module, inverter and combiner box manufacturers to embed these technologies and monitor arcing, fire and safety hazards. Tigo Energy delivers the most effective string monitoring, theft prevention and fleet management.