

Press Release

TVP Solar Earns World First Solar KEYMARK Certification up to 200°C

Stuttgart, Germany, May 10th 2012 – TVP Solar has announced a world first: that its MT-Power, high-vacuum, flat solar thermal collector, has received the internationally recognized Solar KEYMARK Certification up to 200°C.

The testing was conducted on the MT-Power panel v.3,11 (with an aperture area of 1.05m²) by the ITW Institute at the University of Stuttgart concerning durability, reliability and performance, reporting the breakthrough result of 550W_{th} at 180°C (for air cooling) and above 700 W at 100°C (for process heat), with stagnation temperature of 329°C. The Solar KEYMARK certification was then issued by DIN Certco according to the EN 12975-1:2006-06 and EN 12975-2:2006-06 standards. As the main quality label for solar thermal, Solar KEYMARK provides eligibility for subsidies.

Combining traditional flat plate design with high-vacuum (the best thermal insulation), the MT-Power panels invented by Dr. Vittorio Palmieri suppress convection losses and maintain the fluid-flow entirely within the vacuum envelope, thus providing unrivalled performance at a low cost. MT-Power captures diffuse and direct light, effectively operating in any weather conditions (even dusty, humid, polluted environments), requiring zero maintenance and no concentrating mirrors. “We compete against concentrators in the medium-temperature range (100-200°C),” said Dr. Palmieri, “having a higher peak efficiency and producing more energy on a yearly basis due to diffuse light capture, with the added benefits of not requiring any precision cleaning or maintenance of tracking systems.” In addition, MT-Power features the Spot-CheckTM visual high-vacuum verification technology for in-field troubleshooting, which is very relevant for large-scale installations.

“After three years of development of the panel, our results are now undisputable and written stone. This gives certainty about our ability to operate for solar process heat and air cooling,” says CEO Piero Abbate. “MT-Power demonstrates higher efficiency, stronger robustness, longer durability and a cheaper cost profile in large scale production than any other solar thermal collector ”

Mr. Abbate expects MT-Power to revolutionize both the solar industry and renewable technologies, serving large air-conditioning consumers (e.g commercial/office buildings and data centres), with a payback period below 6 years without incentives in select countries. MT-Power will be available for volume sales by H2 2013.

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About TVP Solar:

TVP Solar SA is a Swiss company which designs, develops, manufactures and markets innovative high-vacuum flat solar thermal panels based on patented technology. TVP Solar is a game-changer in the solar thermal industry, effectively competing with electricity in the cooling and industrial process heat markets, while introducing new thermal energy-producing roofs for the residential market.

For more information please visit: www.tvpsolar.com

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