

Best technical product for thin-film module manufacturing

Oerlikon Solar KAI 1200 PECVD SYSTEM

The Oerlikon Solar KAI 1200 PECVD production system, originally used to produce TFT • The 40MHz VHF technology has considerably increased deposition rates and at the same semiconductor devices in the LCD industry, deposits amorphous and microcrystalline absorber layers faster and at a better quality resulting in a significant reduction of the production cost of silicon thin-film solar modules. Based on its research in partnership with the IMT in Neuchatel and the EPFL in Lausanne, a dielectric lens compensation was invented which eliminates the standing wave effect. From the first concepts in early 2000, Oerlikon . Amorphous single junction modules have shown an initial aperture efficiency of 9.6%. Solar successfully implemented this new type plasma source into mass production.

- improved the absorber layer quality.
- Oerlikon Solar's tool has doubled the deposition rate on its 1.4m² solar panels at best in class layer quality and improved the cycle time for the deposition of the amorphous absorber layer

































