

Fiber Laser를 이용한 다결정 태양전지 Surface Texturing

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Abstract : The surface texturing technology is one of the methods to improve the efficiency of crystalline silicon solar cell. This process reduced the reflectance at the surface by the so-called double bounce effect and increased the light trapping. Among these surface texturing technology, the laser texturing is effective for multi-crystalline silicon solar cells which have random crystallographic directions. We investigated the characteristics of laser processing on the surface of the multi-crystalline silicon solar cells using the fiber laser.

Key Words : multi-crystalline silicon, laser texturing, fiber laser