

Title: Amorphous silicon thin film solar cell components

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OverviewDescriptionAmorphous silicon and carbonPropertiesHydrogenated amorphous siliconApplicationsSee alsoAmorphous silicon (a-Si) is the non-crystalline form of silicon used for solar cells and thin-film transistors in LCDs. Used as semiconductor material for a-Si solar cells, or thin-film silicon solar cells, it is deposited in thin films onto a variety of flexible substrates, such as glass, metal and plastic. Amorphous silicon cells generally feature low efficiency.

Used as semiconductor material for a-Si solar cells, or thin-film silicon solar cells, it is deposited in thin films onto a variety of flexible substrates, such as glass, metal and plastic.

In this review article we have studied about types of a-Si SC namely hydrogenated amorphous silicon (a-Si:H) SC and hydrogenated amorphous silicon germanium(a-SiGe:H) SC. This ...

Most thin-film solar cells are classified as second generation, made using thin layers of well-studied materials like amorphous silicon (a-Si), cadmium ...

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