

# There are several materials for photovoltaic solar panels

The PV cell is composed of semiconductor material; the "semi" means that it can conduct electricity better than an insulator but not as well as a good conductor like a metal. There are several different semiconductor materials used in PV cells.

We distinguish three classes of PV materials: (i) ultrahigh-efficiency monocrystalline materials with efficiencies of  $\geq 75\%$  of the S-Q limit for the corresponding band gap: Si (homojunction and heterojunction), GaAs, and ...

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