

Vacuum Coating of CIS (Copper, Indium and Selenium) Solar Module

1. Application

Solar cells consist of light absorbing semiconductor materials, which are applied to a carrier material in thin layers. The charge separation of charge carriers released by light irradiation results in an electrical voltage which is used for power generation.

2. Role of vacuum technology

Vacuum is necessary for most processes for the application of thin layers.

3. Vacuum technology

Vacuum components (e.g. flanges and fittings of the highest precision as well as reliable pressure measuring gauges) are part of vacuum coating machines.



Example provided by VDMA member companies