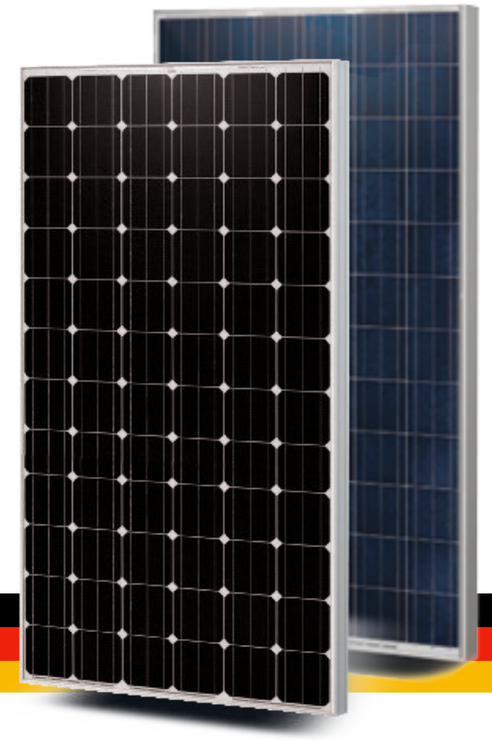
AE SOLAR
alternative energy

Production & Work process



Production process

Procurement of raw materials

Solar cell sorting & testing

Dicing solar cell

Cutting EVA & TPE/TPT film

Cutting ribbon

Soldering solar Cell

Laying up

Inspection of Solar cell

Electro-luminescence testing

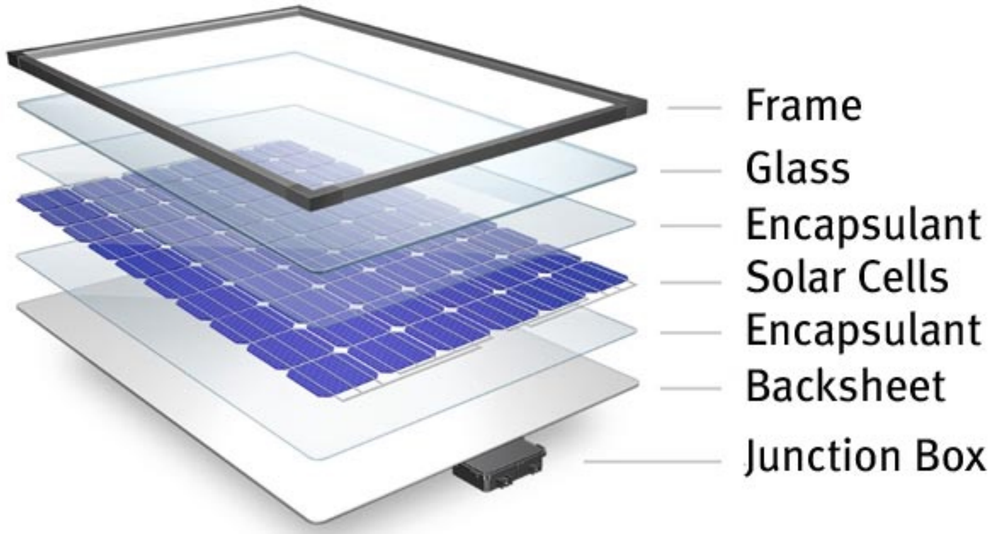
Laminating

Framing

Junction Box installing

Solar Module Sun simulation test

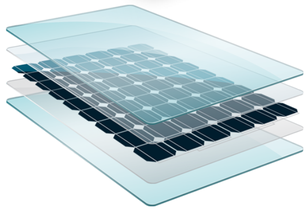
Cleaning & Packing



Raw materials

Solar Cell	The key component, the main and most important basic building block of Solar PV Module

Ethylene Vinyl Acetate (EVA) Film	-High Stability against Damp heat. High light transmission Optimizing the bond strength with bond glass and back sheet -Highest protection & encapsulation against UV and weathering

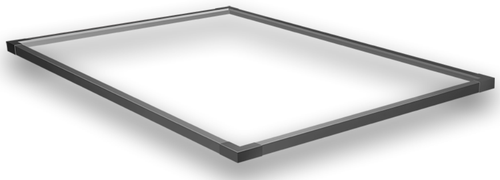


Solar Glass	-Protection from Weathering & outside objects -A wide spectrum of light for solar cells to operate Stability against UV

Soldering ribbon	-To create the PV busbar over the solar cells -To connect the cells in electrically series-parallel connection

Thermo Plastic Elastomer (TPE) Back sheet	-Improved module eff. -High gloss surface to increase solar reflectance -Easily cleanable -Higher stability under damp heat & freeze thaw conditions -Very strong tear-bond to EVA-Chemically resistant

Raw materials



Module Frame	To give a structural solid usable shape to solar PV module & to create a Solar PV Panel

Junction Box	-To complete the electrical circuit of solar cells & make it ready to use as power generation module -To maintain the electrical safety

Cable	To connect to other PV modules in the string/array

MC4 connectors	-To connect to next ModuleTocomplete the string -To connect to inverter/charger device -To maintain the electrical safety in the system

Solar Sealant	-To seal the envelope/frame -To fix the JB on the back side of Panel -To make the Panel weather proof