

ABSTRACT

CAR ROOFTOP SMART SOLAR

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A solar car is a solar vehicle used for land transport. Solar cars combine technology typically used in the aerospace, bicycle, alternative energy and automotive industries. The design of a solar vehicle is severely limited by the amount of energy input into the car. Solar cars are often fitted with gauges as seen in conventional cars. solar thermal energy which converts solar energy to electrical for running car. Here intelligent solar panel tilts in lights direction to keep absorbing ample amount of light irrespective of vehicles direction. PV cells directly convert sunlight into electricity. When sunlight (photons) strikes PV cells, they excite electrons and allow them to flow, creating an electrical current. PV cells are made of semiconductor materials such as silicon and alloys of indium, gallium and nitrogen. Silicon is the most common material used and has an efficiency rate of 15-20%.

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