



# Designing Solar Panels for Air Conditioners in Bus: Solar PV Designing

*Karthick Sakhivel*

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*Karthick Sakthivel*

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The designing of the solar panels at the top of the bus is calculated by three major steps, 1) The calculation is done for electrical energy demand of air conditioner in bus by using thermodynamic temperature flow inside the bus, with respect to the minimum and maximum temperature data for Chennai city during year 2008. 2) The calculation is done for monthly energy produced by single chosen solar panel using the solar radiation data for Chennai. 3) Internal Electrical circuit is designed for the bus by choosing the specific MPPT solar charge controller and battery for storage. All the calculation are done using MAT LAB.

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