Solar Wireless Electric Vehicle Charging System

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Abstract: The design of a solar charging station for electric cars is thoroughly explained, along with how it solves the two main problems of fuel and pollution. There are more and more electric cars on the roads today. Electric cars have proven to be effective in lessen the travel cost by switching from fuel to EV’s, which is much less expensive, with the environmental benefits. However, in this case, we are developing a charging system for electric cars that provides a unique, solution. There are no cables involved, solar energy is used to maintain the charging system, and no external power source is required. The vehicles can be charged while they are moving. The development of the system involved the use of LCD Displays, batteries, solar grid, control circuits, primary and secondary copper coils, AC to DC converters, At mega processors and inverters. The system uses solar panel for power the battery through the charge controller, then the battery will store DC power. That DC power is converted into AC for transmission.

Keywords: Electric vehicle, EV charging, solar power, copper coils, At mega controller.

REFERENCES