

Can solar operated sprayers be used for pesticide spraying?

Some solar operated sprayers have achieved a high level of development and some commercial success to spray pesticides in the field, of agricultural applications. However additional research is needed to develop improve version of solar operated sprayer to use widely in developing countries.

Do solar-powered sprayers save crop cultivation cost and reduce environmental pollution?

The solar-powered sprayers also save crop cultivation cost and reduce environmental pollution. This review describes the current status of the solar-powered sprayer, flow chart and circuit diagram required for the successful development of the sprayer. The capacity of solar panel varied from 10 W to 60 W.

Can a solar panel charge a sprayer battery?

Sinha et al. used solar photovoltaic (SPV) panel of 60 W for charging the power pack of the sprayer system. They reported that deep discharge of battery was a common problem encountered by farmers in the commercially available battery.

Can a solar PV sprayer be used on a manually drawn vehicle?

Performance of the developed solar PV sprayer on manually drawn vehicle has been tested in field and found satisfactory to spray pesticide in different arid crops and the sprayer can be best operated during 9:00 AM to 3:00 PM for Jodhpur station (Fig. 4).

Can solar energy be used to operate a spray pump?

In addition, the use of conventional energy i.e. petrol produces pollutants which are harmful to the environment. However, the solar energy which is available from the sun at free of cost might be used to operate the spray pump to reduce labor, vibrations, noise, and cost.

Can solar sprayer be used without fossil fuel?

Joshua et al., (2010) modified existing power sprayer on fossil fuel into solar sprayer (Fig. 2). To overcome the difficulties in the existing model and to reduce the operating cost of the power sprayer, a modified solar sprayer model was designed and introduced for effective operation without fossil fuel.

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