

Development of All-in-One Solar Kit

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Abstract : The energy we receive from the sun is known as solar energy, and it is a reliable, long-lasting, eco-friendly and the most widely used energy source in the 21st century. It is. There are several techniques for harnessing solar energy, and we are all seeing large utility-scale projects to collect maximum amperes from the sun using current technologies. Solar PV is now on the rise as a means of harvesting energy from the sun. Moving a step further, our project is focused on designing an All-in-one portable Solar Energy based solution. We considered the minimum load conditions and evaluated the requirements of various devices utilized in this study to resolve the power requirements of small stores, hawkers, or travelers.

Keywords : DOD-depth of discharge, pulse width modulation charge controller, renewable energy, solar PV- solar photovoltaic

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