

A-Core Container

Mauritius Solar Automatic Irrigation System



Overview

Can a solar-powered irrigation control system be used autonomously?

Given the growing need for sustainable agriculture practices, the development of a solar-powered smart irrigation control system kit holds immense promise. By harnessing solar energy, this kit can operate autonomously, reducing dependence on conventional energy sources and minimizing operational costs for farmers.

What is a solar-powered smart IRRI-kit?

The development of the solar-powered Smart Irri-Kit presents a sustainable and automated solution for optimizing irrigation practices, contributing to water conservation and improved crop yield. The integration of solar power enhances its autonomy and reduces operational costs.

What is a smart irrigation control system?

A smart solar-powered irrigation control system (Smart Irri-Kit) was developed to schedule and automate water delivery to crops based on soil moisture levels. It incorporates an automated tank water level control system that triggers pump activation during irrigation.

Is there a new automated irrigation method for agricultural land?

These research studies aim to develop a new automated irrigation method for agricultural land. Sprinklers and surface irrigation use roughly half of available water.

What is a smart irrigation kit?

The kit combines the advantages of solar power and intelligent irrigation scheduling to create an efficient and sustainable solution for agricultural irrigation. The Smart Irri-Kit was designed and constructed taking into consideration the use of appropriate materials, ease of disassembling and reassembling, and ease of operation.

Does a smart solar irrigation control system work under Broccoli?

A demonstration unit under Broccoli on a 100 m² drip irrigation system was established at Makerere University Agricultural Research Institute, Kabanyolo (MUARIK) for conducting system functionality testing for the smart solar irrigation control system kit (Fig. 6).

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