

Single-phase cooperation for agricultural irrigation folding containers

This study explores the design and adaptation of a shipping container into a portable irrigation control station for agricultural operations. The project leverages the ...

This paper presents the design, implementation, and performance evaluation of a photovoltaic (PV)-fed drive system with a single-phase induction motor for irrigation applications.

Traditional irrigation systems are commonly limited by high energy consumption and low efficiency. To address this challenge, this study introduces a distributed photovoltaic-storage ...

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With world water resources under tremendous pressure, advancing how irrigation is managed is crucial. IIC supports successful integration of precision- and conservation-oriented practices and tools in ...

Belfer, E., and Magalhães, M., "Sustainable agriculture: Definitions and approaches", In IEEE Global Humanitarian Technology Conference (GHTC-2016), pp. 448-453, 2016. [Google Scholar]

Two single-phase power options can overcome this barrier. One option is to install a large (up to 100 hp), single-phase motor and generator technology, for instance a Witten-Pole™ motor, which can be ...

SPIS can reduce GHG emission from irrigated agriculture and enable low-emission irrigation development. SPIS can provide a reliable source of energy in remote areas, contribute to rural ...

The aspiration of this study is to create a PV-fed single-phase induction motor for an irrigation system. In the system, the electrical energy obtained from PV panels is fed to the boost ...

Solar shipping container powers irrigation and tools in off-grid farms. Ideal for remote agriculture needing clean, mobile energy.



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