

Power electronics combined with intelligent control help PV systems to be observable, controllable, and adjustable. However, the degree of intelligence of PV systems is still at a low level. The potential of intelligent ...

This article analyzes the relationship between artificial intelligence (AI) and photovoltaic (PV) systems. Solar energy is one of the most important renewable energies, and ...

The article proposes to prototype an intelligent photovoltaic system, based on artificial intelligence with a neural network library "propet"; having a positive impact on the ...

The mechanical system is made up of a support structure that supports the solar panel and allows its movement in two degrees of freedom: rotation on a horizontal axis and inclination on a ...

Highlights. Working Hours on Consecutive Rainy Days: 2.4 Days On-load Charge on Sunny Days: 2.7 Days + The data is based on TP-Link laboratory and public meteorological data obtained ...

Further investigations should be carried out to effectively combine intelligent control with the PV system to constitute an intelligent PV power system with multiple functions, ...

The research goals of this study are as follows: (i) providing an intelligent decision support framework for the development of PV solar power; (ii) presenting the most appropriate ...

This article mainly studies the intelligent control system in desert area based on photovoltaic microgrid power supply. ... In microgrid system, photovoltaic power interface inverter is an important connection module ...

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