

For an SPGS, a non-negligible parasitic capacitance appears between solar cell array and the ground. Since there is no galvanic isolation between the solar cell array and the grid for a transformerless SPGS, it may ...

Solar-wind power generation system for street lighting using internet of things (Jahangir Hossain) 645 The proposed prototype was validated by comparing the real time results with the hardware

The focus is on providing flow power generation to rural areas. ... created a fuzzy logic-based control and sizing method for a photovoltaic-to-air current power conversion ...

Dependence on fossil fuel has significantly resulted in global climate change and harms the ecosystem. The process of integration of electricity production with renewable ...

The efficiency (η_{PV}) of a solar PV system, indicating the ratio of converted solar energy into electrical energy, can be calculated using equation [10]: $\eta_{PV} = P_{max} / P_{inc}$...

This paper presents the optimization of a 10 MW solar/wind/diesel power generation system with a battery energy storage system (BESS) for one feeder of the distribution system in Koh Samui, an ...

The step by step design of a 15kW solar power supply system and a 10kW wind power was done as a sample case. The results showed the average exploitable wind power density of 54.5W/m² average mean ...

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