

عنوان مقاله:

COMBINATIONAL IMPLEMENTATION OF PHOTOVOLTAIC AND SMES FOR SUPPLYING UNBALANCED AC INPUT LOAD AS INDEPENDENT OF NETWORK

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خلاصه مقاله:

In this paper, combinational implementation of light voltage by superconducting magnetic energy storage (SMES) for unbalanced AC input load is issued. SMES is connected to the DC network by a DC/DC converter and it is used to control the bus DC voltage and improvement of PV system performance. Array of PV is connected to the DC bus by a DC/DC converter in order to inject the maximum generated power. This paper concentrates on new control design strategies for different implemented converters, and power control between diverse parts of the system. Computer simulations are performed by PSCAD/ EMTDC software.

کلمات کلیدی:

Photovoltaic System (PV), Superconducting Magnetic Energy Storage (SMES), Dissipated Generation System, Control Strategy

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