

[TELKOMNIKA] Article Review Request

Dari: Assoc. Prof. Tole Sutikno (tole@journal.uad.ac.id)

Kepada: yan.budiyanto@yahoo.com

Tanggal: Senin, 15 April 2013 17.24 WIB

Mr. Budiyanto Budiyanto:

I believe that you would serve as an excellent reviewer of the manuscript, "H-Bridge based Five-Level Current-Source Inverter for Grid Connected Photovoltaic Power Conditioner," which has been submitted to TELKOMNIKA (Telecommunication, Computing, Electronics and Control). The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

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Thank you for considering this request.

Assoc. Prof. Tole Sutikno
Universitas Ahmad Dahlan
tole@journal.uad.ac.id

"H-Bridge based Five-Level Current-Source Inverter for Grid Connected Photovoltaic Power Conditioner"

Abstract

This paper presents a new circuit configuration of H-bridge based five-level current-source inverter (CSI) used for grid connected photovoltaics system. In this topology, the intermediate level currents of the five-level current waveform are generated by connecting DC current modules to the H-bridge CSI. Some new features can be derived using this new topology such as reducing the switching power device count, and reducing the inductor conduction losses of the inverter. The proposed five-level CSI is tested for grid connected photovoltaic system through computer simulation using PSIM software. Furthermore, the experimental test results of the proposed five-level CSI are presented. The results show that the inverter works properly generating a five-level current waveform and injecting a sinusoidal current into power grid with less harmonics distortion and with unity power factor operation.

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