

# Review on Active Islanding Detection Technique Used in PV Grid System with Drive Load

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**Abstract:** Photovoltaic (PV) system is one of the popular choices among the non-conventional energy sources & it has too many advantages over the other energy production system. Specifically, it provides a free and abundant supply of electric energy. The issue of islanding in grid-tied PV systems remains a great challenge to fulfill the required guaranteed security of the PV system technique, drives load equipment & the prompt and reliable power supply. Due to islanding, the power supply was interrupted from load and unwanted hazardous conditions may occur for the connected load (drive system in industries) and PV system equipment. In industries this type of fault and interruption is uneconomical. This project aims at providing a study of various IDM's used for grid-tied PV system & simulation analysis of the drive load parameters when islanding condition occurs in the grid-tied PV system and simulate active IDM on PV grid-tied system to detect it which permits us to protect the system. The proposed system will be tested and simulated with the help of MATLAB simulation software.

**Keywords:** IDM, PV, Grid, Drive Load

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