## Positive Sequence Superimposed Based Islanding Detection Method Used in Distributed Generation

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## Abstract

This paper presents a passive method based localized islanding detection method for distributed generation (DG) connected to a main grid. The approach in this paper is based on the calculation of the magnitude of positive sequence based superimposed components of current and voltage, and the angle between them at the DG end. These three physical quantities altogether are used to identify the islanding. The prevailing active detection techniques introduce deliberately disturbances into the system which might lead to problems related to power quality, stability, and reliability of the power system. On the contrary, passive methods based islanding detection techniques has the issue of large non-detection zone (NDZ). The proposed

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