

A Fuzzy Logic MPPT For Three-Phase Grid-Connected PV Inverter

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Abstract— This paper suggests an innovative method to control a grid tied PV system and ensure the pursuit tracking the maximum power point (MPPT) under varying irradiance condition. This method applies a fuzzy logic controller (FLC) at DC/DC stage. The various stages of the conception of this method are introduced and computed. The outcomes of this simulation are compared with those acquired by conventional technique which is incremental conductance IncCo. The simulation demonstrated the utility and advantage of FLC over conventional method in term of speed and precision.

Keywords—Fuzzy logic, Incremental conductance, MPPT, PV, grid tied inverter

I. INTRODUCTION

Nowadays, the world begin moving toward green clean energy future, for various environmental and economic reasons [1], therefore numerous countries installed isolated and Grid connected photovoltaic power station to support the production of electrical energy.



Fig. 1. Grid-tied PV system block diagram.

The grid connected photovoltaic power station performance can be effected by climatic [2] and meteorological condition [3] and shading [4] even dust accumulation [5], [6] which require adaptation to ensure the

proper operating through all circumstances (Fig. 1). The DC/DC converter is the key element to fill this role.

The design of a DC-DC adaptation stage makes it easy to connect a photovoltaic generator to any device that requires a stable DC voltage with fairly high conversion efficiency. In fact, the design of a DC/DC adaptation stage corresponds to the modeling of the basic functions of a DC/DC converter (or chopper), through the notion of conservation of the power transferred by a static converter, corresponding to the relations between the four electrical quantities on the input and output ports which are its currents and its input and output voltages.

Several artificial intelligence based approaches were adopted to control PV system and achieve MPPT like FLC, ANN, evolutionary algorithm, PSO, genetic algorithm, [7], [8], the use fuzzy logic controller in photovoltaic systems has been researched considerably in recent years [9]–[13]. The advantage of the FLC method is rapidity response to environmental changes and the that not much information about system parameters is needed [14]. In this work to try to establish a FLC for grid tied PV inverter and compare the results to conventional method.

II. MATERIAL AND METHODS

A. DC/DC Converter

The adaptive phase between the photovoltaic generator and the DC/AC stage is ensured by the DC-DC part to guarantee a maximum power transfer, thus, the operating point is kept around the maximum power point even in case of variation in the operating conditions (irradiance, temperature, load variation, etc.).

The most frequently used DC / DC converter is a boost converter. A boost converter, or parallel chopper, is a switching power sources that increases the DC voltage to higher value. Fig.2 shows a basic boost converter.

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