

## Solar Energy South Africa

# DC motor for photovoltaic bracket



## Overview

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How to control DC motor pump?

Fuzzy and conventional techniques are exploited to control DC motor pump. Irradiation and temperature variables are the inputs for the system control which act out current, voltage and power values of the photovoltaic source. Then, MPPT item and DC-DC converter aim to make the most amount of energy by PV panels.

Which DC-DC boost converter is used for PM-BLDC drive powered by solar-PV system?

A conventional DC-DC boost converter is selected for driving the PM-BLDC drive powered by Solar-PV system. The performance of PM-BLDC motor is evaluated under fixed speed and variable speed conditions by using Matlab/Simulink tool, results are presented. Conferences > 2020 IEEE International Sympo.

What are the components of photovoltaic pumping system?

The main components of photovoltaic pumping system are shown by Fig. 1. The model schema includes PV energy generator, DC-DC converter, monitoring by MPPT item so as to have the maximum amount of energy, assembled with a second DC-DC converter. This latest feeds a direct current motor coupled to water pump.

Can a buck-boost converter control solar photovoltaic (SPV) array feed water pumping?

This study deals with a buck-boost converter controlled solar photovoltaic (SPV) array fed water pumping in order to achieve the maximum efficiency of an SPV array and the soft starting of a perman.

Which DC-DC converter should be used in PV system?

It has been concluded that the best selection of DC-DC converter in the PV

system is the buck-boost DC-DC converter since it is capable of achieving optimal operation regardless of the atmospheric condition and load, hence adopted in this paper.

What is a PV energy generator & DC-DC converter?

The model schema includes PV energy generator, DC-DC converter, monitoring by MPPT item so as to have the maximum amount of energy, assembled with a second DC-DC converter. This latest feeds a direct current motor coupled to water pump. This section comprises two parts.

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