Abstract

Maximum Power Point Tracking (MPPT) algorithms are used in PV system to maximize the output power. In this paper MPPT algorithm is implemented using Ćuk converter in PV system. The dynamics of photovoltaic system is simulated at different solar irradiance and cell temperature and is validated by using Perturb and Observe (P&O) method in Maximum Power Point Tracking algorithm.

References

Improvement of the Performance of PV System with CUK Converter by MPPT Technology

Applied Engineering Research, ISSN 0973-4562 Vol.7 No.11, 2012.

Index Terms

Computer Science Circuits and Systems

Keywords

Cuk Converter, MPPT (Maximum Power Point Tracking), P&O algorithm.