

PV Fed Conversion using existing UPS

By

Faizan Ahmad Khan
01-133152-036

Hamza Shakeel
01-133152-045

Shakir Mehmood
01-133152-133

Supervised by

Dr. Asad Waqar



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Certificate

We accept the work contained in this report as a confirmation to the required standard for the partial fulfillment of the degree of BS(EE).

Head of Department

Supervisor

Internal Examiner

External Examiner

Dedication

This thesis is dedicated to our parents who supported and prayed for us at every level of academic career. This dedication shows our gratitude and love for our parents, whose encouragement, prayers and financial support resulted in the making of our final year project (FYP) and writing of this thesis.

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Abstract

The world today we live in, is facing problems of global warming and energy crisis due to increase in number of emission emitting automobiles, new industrial estates etc. The problems encountered by our planet earth can be solved by use of renewable energy like solar, wind, hydel energy etc. Solar energy has become the most famous among the renewable's, so different techniques are used for harnessing its maximum energy. Similarly, the use of uninterruptible power supply [UPS] is also increasing due to rise of energy crisis and the existing UPS takes grid supply for charging batteries resulting in high consumer electricity bills. This thesis will provide information of how to effectively harness solar energy using maximum power point tracking [MPPT] method from photovoltaic [PV] panels. Beside this, the thesis will also provide information of how to install solar charge control module for the charging of UPS batteries and taking grid as backup supply during unavailability of solar energy.

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