

**HIGH QUALITY LOW COST DC POWER SUPPLY
USING A SIMPLE CONTROL METHOD**

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ABSTRACT

This project describes a high quality low cost DC power supply using a simple control method to compensate the pulsating supply current to become a continuous, sinusoidal and in-phase with the supply voltage with unity power factor. This project will solve the power quality problem of the existing typical topology. Besides, having a low cost rectifier converter with minimal device use, it will afford better features. The proposed method will applied to a diode bridge rectifier with a simple control technique.

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