ABSTRACT

Corrosion or rust is quality depreciation event a materials in consequence metal ingredient conection doesn't beneficial with environment. Corrosion can’t avoid or lossed but can be controlled by making impreseed current cathodic protection (ICCP).

DC current gift in structure that be protected to need correct arrangement and accurate so that as according to protection current needed. therefore need DC voltage regulation.

The purpose of this final project is to design power supply system to controlled by microcontroller. Result of experiment showed system work better with efficient program. With power electric switch controller existence by microcontroller, so would be got regulation voltage so that protection current that wanted fast fulfilled. Maximal Currents protection is 3 Ampere with DC voltage 50 Volt.

Keyword : Power supply, Buck Converter, Impressed current cathodic protection.