ABSTRACT

. The converter is a device that can produce a voltage converter system

and power supply. Switching power supply is a power supply system whose power

regulation uses electronic switching (switch), and this switching power is usually

found in the main power source / voltage circuit of an electronic device or

commonly called a regulator / power supply.

In this final project, a converter that uses a Dickson Charge pump

topology will be designed which is able to store small power and functions to

increase the voltage generated by the output which can be optimized more

efficiently.

The results obtained from this study are the input voltage of 3 V and

produce an output voltage of 4,5 V. The microcontroller functions to regulate the

switching on the MOSFET by using a 60% duty cycle with a frequency of 35 Khz.

Keywords: Converter, Voltage, Switched Capacitor

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