ABSTRACT

In this final project, the car laptop charger is made as a form of effectiveness and efficiency in the use of laptops in the drive. Most laptop charger on the car using the inverter as a means of conversion from voltage battery voltage into the net will be a supply charger.

Where as this laptop charger was designed using the system directly without intermediaries inverter. This system is made with joining two converter, they are boost converter and the flyback converter. Battery voltage will be raised to 40 V through a boost converter that will supply flyback converter, and output from the flyback is used to supply laptop with three different outputs of the rating is adjusted to the three types of laptops, which is 19V / A 3.42; 19V / A 3.16; 18.5 V / 3.5 A.

Keywords: Boost converter, flyback converter, snubber, Analog PWM