

ABSTRACT

This Final Project discusses the modeling of balancing techniques for the Battery Management System (BMS) which is focused on the type of Li-ion battery. The balancing technique used is passive balancing where the charging of the battery is attempted to be the same. This is intended to avoid battery damage due to imbalance in the balance process. Detection of battery charging levels using voltage sensors and current sensors, while for validation using a multimeter. Testing on the system built shows the level of balance in charging with various battery conditions. For measurement validation there is a deviation in the form of errors between measurements with sensors and multimeters.

Keywords: Battery Management System, Li-ion, Balancing, Battery Management System, Battery Balance.