

## **Abstract**

Earthquakes are included in one of the natural disasters that come suddenly in a relatively short time (suddenly). A number of earth researchers from the University of Indonesia have created an innovation called EWAS (Earthquake Warning Alert system) to be able to detect earthquake shocks and sound a warning alarm. Initially, EWAS resources only came from PLN electricity. But PLN's electricity is not always stable, and it often goes out when there is an earthquake. Finally, the EWAS power source uses solar panels, but makes the medium bigger. Batteries are used as a place to store energy in a research journal entitled "Insect Pest Trapping Tool in Paddy Fields Using Solar Light". The author wants to use a battery as well, which aims to replace the use of solar panels so that the required medium is smaller. The tested battery is able to replace energy from the PLN electricity to turn on the earthquake early detection system which requires optimal power of 12V for 21 hours with a battery voltage of 11.35V remaining.

Keywords : battery, voltage, current, power, power supply