

ABSTRACT

Measuring state of charge in battery is needed as indicator of amount electricity energy that available from house that will distributes its electricity energy to distribution line. State of charge here is useful to facilitate operator to manage electricity power on distribution line, so electricity line in distribution line keep steady.

This research uses coulomb counting method to measure state of charge on battery using charge and discharge current on baterai that become main parameter when measuring state of charge using coulomb counting method.

Coulomb counting method in this research has error around 3% until 19% can be caused by difference of charging and discharge battery modeling and not including state of health influence when measuring state of charge.

Keywords: *State of Charge, Coulomb Counting, Battery*