Test Platform for Electric Alternators

Abstract

This invention provides an energy efficient way to test large size alternator by using a small amount of electricity. This eliminates the need to connect large size electric motors directly to the Mains, which can be complicated and expensive. This invention uses the electricity generated by the alternator and feed it back into an electric motor to drive the alternator again. Energy losses are topped-up to keep the process going.

With this process in place the alternator is can be operated the same as it has been connected to the Mains and a wide range of tests can be performed on the alternator and have minimum impact to the Mains.

One of the important values that can be verified in this setup is the efficiency of the alternator.

Fig 1.