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Product Name :
Salient Pole Generator

Product Code :
LBNY-0005-1590009



Description :

The open and flexible design is ideal for lecturers to create their own experiments, as well as student project work. To allow realistic investigations, the characteristics of the prime mover and generator are similar to industrial turbine and generator sets. The Salient Pole Generator explores the principles and characteristics of salient pole generators. It contains everything needed for salient pole generator experiments including resistive capacitive and inductive load banks. Manual or automatic voltage regulation excitation controls the output voltage of the generator. When the generator is in overrun mode, resistors dissipate the reverse power. The prime mover and generator set is two coupled machines mounted on a common bedplate in the base of the console. The user may synchronise the generator output to the grid supply using a synchroscope. They may also use the set of three coloured lamps. The control and protection circuits work when the generator is unsynchronised and synchronised to the mains electrical supply. A vector drive controls the speed of the prime mover and allows investigations into load flow in positive and negative directions. An integral shaft encoder allows load angle analysis. When the generator is synchronised, the user can operate a variable quadrature droop for reactive power regulation.

Technical Specification :

Nett dimensions and weight: 1850 mm long x 1870 mm high x 960 mm and 750 kg

Laboratory Instrument India

