

**Product Name :**  
Electrical Power Generation Trainer**Product Code :**  
EEATC036ALTEC™**Description :**

The electrical power cannot be stored in large quantities and consequently, it has to be generated at the same time as the consumers need it. The generation of electrical energy is performed by means of high power synchronous machines or alternators, whose construction design depends on the type of drive/prime movers i.e. gas, steam, water or by any motor AC/DC. Then the synchronous generator must be connected in parallel with a constant voltage and frequency, on reaching its nominal speed, excitation voltage and current may be increased from zero until the stator voltage is brought up to the same level as that of the network. To obtain this situation the magnitude, the phase rotation and the rotational direction of the two voltages may be achieved. This procedure is termed as synchronization.