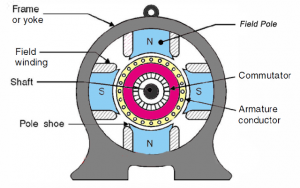
The DC machines are classified. into two types such as DC generator as well as DC motor. The main function of the DC. generator is to convert mechanical power to DC electrical power, whereas a DC motor converts. DC power to mechanical power.

A direct current (DC) motor is a type of electric machine that converts electrical energy into mechanical energy. DC motors take electrical power through direct current, and convert this energy into mechanical rotation.

The working principle of a DC machine is when electric current flows through a coil within a magnetic field, and then the magnetic force generates a torque that rotates the dc motor. The DC machines are classified into two types such as DC generator as well as DC motor.



he basic working principle of the DC motor is that whenever a current carrying conductor places in the magnetic field, it experiences a mechanical force. Fleming's left-hand rule and its magnitude decide the direction of this force

DC power is widely used in low voltage applications such as charging batteries, automotive applications, aircraft applications and other low voltage, low current applications. All solar panels nowadays produce DC power.

A DC generator is an electrical machine whose main function is to convert mechanical energy into electricity. When the conductor slashes magnetic flux, an emf will be generated based on the electromagnetic induction principle of Faraday's Laws

A DC Motor is an electrical device that converts electrical energy into mechanical energy. Going by the DC motor full form, the device uses Direct Current (DC) for its operation. A rotary component called an armature coil rests inside the motor's casing, surrounded by strong permanent magnets.

Direct current machines (DC machines) • DC Machines: Rotating electrical machine. • Example: Generator and motor. • DC generator: Converts mechanical power to electrical power of DC nature. • DC motor: Converts electrical power into mechanical power (converse of DC generator). • Working principle: Faraday’s law of EM induction

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