

# **Train Power System**

work and components

## **Components :**

### **Rectifier**

A rectifier converts AC to DC

### **Inverter**

an electrical device that provides AC from DC

### **Transformer**

A set of windings with a magnetic core used to step up or down a voltage from one level to another

### **Grid / Braking Resistor**

A train or locomotive mounted steel resistor used absorb excess electric energy during motor or braking power control

### **Relay**

A relay is remotely controlled device that opens and closes a switch in a local circuit , usually of higher power

### **Contactor**

A contactor is remotely operated switch which is used to control a high power circuit

### **Master Controller**

A driver's power control device located in the driver's cab and mounted on the left side of the driver's desk . Modern systems often have controllers that incorporate

braking ( Direct Brake ) as well .

## **Indirect Brake Controller**

An auxiliary brake control device that is used to apply Indirect Brake ( Pneumatic Brake ) when necessary . An indirect brake controller is normally found on the right side of the driver's desk .