

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 .