# Automatic Power Factor Correction (APFC)

**Automatic Power Factor Correction (APFC)** system which can ensure consistently high power factor without any manual intervention. In addition, the occurrence of leading power factor will be prevented. Where-ever there are more harmonics in the load then Thyristorised Control panels are used.

**APFC panel** products are fully automatic in operation and can be used to achieve: Consistently high power factor under fluctuating load conditions Reduced kVA demand charges Lower energy consumption in the installation by reducing losses Preventive leading power factor in an installation l Elimination of low power factor penalty levied by electrical supply authorities

The basic operation is as follows: control relay) To automatically switch ON and OFF relevant capacitor steps on to ensure consistent power factor To ensure easy user interface for enabling reliable understanding of system operations carried outs etc. To protect against any electrical faults in a manner that will ensure safe isolation of the power factor correction equipment To continuously sense and monitor the load condition by the use of external CT (whose output is fed to the

**Salient Features:**

Modular design which allows easy handling by the user and also capable of being extended/upgraded. The incoming switchgear provided has 9 kA, for 5 to 25 kVAr & 25 kA, for 25 < 50 kVAr fault interrupting capability. Copper busbar system suitable for withstanding 50 kA fault current. Minimal joints in all the connections to ensure better reliability and lower losses.