

It's all about saving your money!



**HYBRID SYSTEM =
[PASSIVE FILTER + ACTIVE
HARMONIC FILTER COMBO]**

Benefits of Hybrid System

Substantial mitigation of Harmonics thus improving PF to a great extent this leads to

- ▶ Hybrid filter can suppress Harmonics and also maintain the power factor and hereby beneficial for long term operation. There is possibility of power factor reduction in future due to increase in eddy current and iron core losses, cable losses etc.
- ▶ Hybrid filter can withhold large voltage and currents.
- ▶ Hybrid filter incorporating advantages of both active and passive filter can provide Techno commercial cost effective power quality improvement solution.
- ▶ In case of VFDs and high harmonics demanding networks the hybrid filter plays a vital role. The active filter can nullify higher order harmonics and detuned/tuned filter can suppress lower harmonics like 3rd, 5th, 7th, 9th, 11th and 13th which are dominant in case of nonlinear loads.
- ▶ In case of expansion of load the passive filter part of hybrid filter can be modified by changing the reactor and capacitor rating as per the harmonic and power factor demand with minimal cost. Hence this can avoid investment in higher rating active filter thereby reducing the cost.
- ▶ Passive filter offers flexibility and reliability resulting into long term trouble free operation.
- ▶ Hybrid filter can be accurately tuned to reduce harmonics and obtain desired power factors. Thus hybrid filter provide higher accuracy and optimum design
- ▶ Hybrid filter consisting of passive and active filter can offer superior performance, robust design and most economical option.
- ▶ Due to its distinct characteristics hybrid filters can be strongly recommended for all type of nonlinear loads like furnaces, rolling mills, VFD s etc.



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